

Protection, flexibility and safety

Cam switches from 10 to 200 A

► STANDARD SOLUTIONS P. 134 - 212

The expertise of a specialist like Baco allows us to offer made-to-measure solutions, even the most specific.



Choice of diagram
from 1 to 24 contacts

Metal shaft
can withstand more than
1 million operations

**Customised
engravings**

► ADVANTAGES

- Conform to European and international standards: IEC, UL and CSA
- A metal shaft capable of withstanding more than 1 million operations
- More than 50 000 different diagrams available
- Many specific functions and special markings

► MADE-TO-MEASURE SOLUTIONS

How do I order a switch in 5 steps?

Example: A change-over switch without off

- 1 DETERMINE THE RATING according to the electrical specifications** **p. 215**
 Voltage, performance, etc (p. 213).
EG: for switching of resistive loads 63A
 - RATING: PR 63
 - PRICE LIST CODE: I
- 2 SELECT A DIAGRAM AND ITS SWITCHING ANGLE** **p. 216**
EG: for a 2 way switch without off, with 1 pole
EG: for a switching angle of 90°
 - CAT. NO. 2251
 - PRICE LIST CODE: A02Z
 - CAT. NO. A4
 - PRICE LIST CODE: -
- 3 DETERMINE THE MOUNTING METHOD** **p. 249**
 front or rear mounting, with screws or on DIN rail.
EG: for rear mounting 68 mm interval
 - CAT. NO. S
 - PRICE LIST CODE: Y508
- 4 DEFINE THE PRESENTATION** **p. 263**
 Plate, frame and handle, padlockable, with clutch drive, in enclosure, with key locking, coupling in parallel or in series, dual-voltage device, etc
EG: for a □ 72 frame with a medium handle
 - CAT. NO. Q72 MN
 - PRICE LIST CODE: Q72 MN
- 5 SELECT YOUR OPTIONS** **p. 278**
 Handles and long handles, legends, legend plate, terminal cover, etc
EG: for a 72 "pump 1 pump 2" engraving
 - engraving
"pump 1 -
pump 2"
 - PRICE LIST CODE: Y000

Example of grid to be used for your order

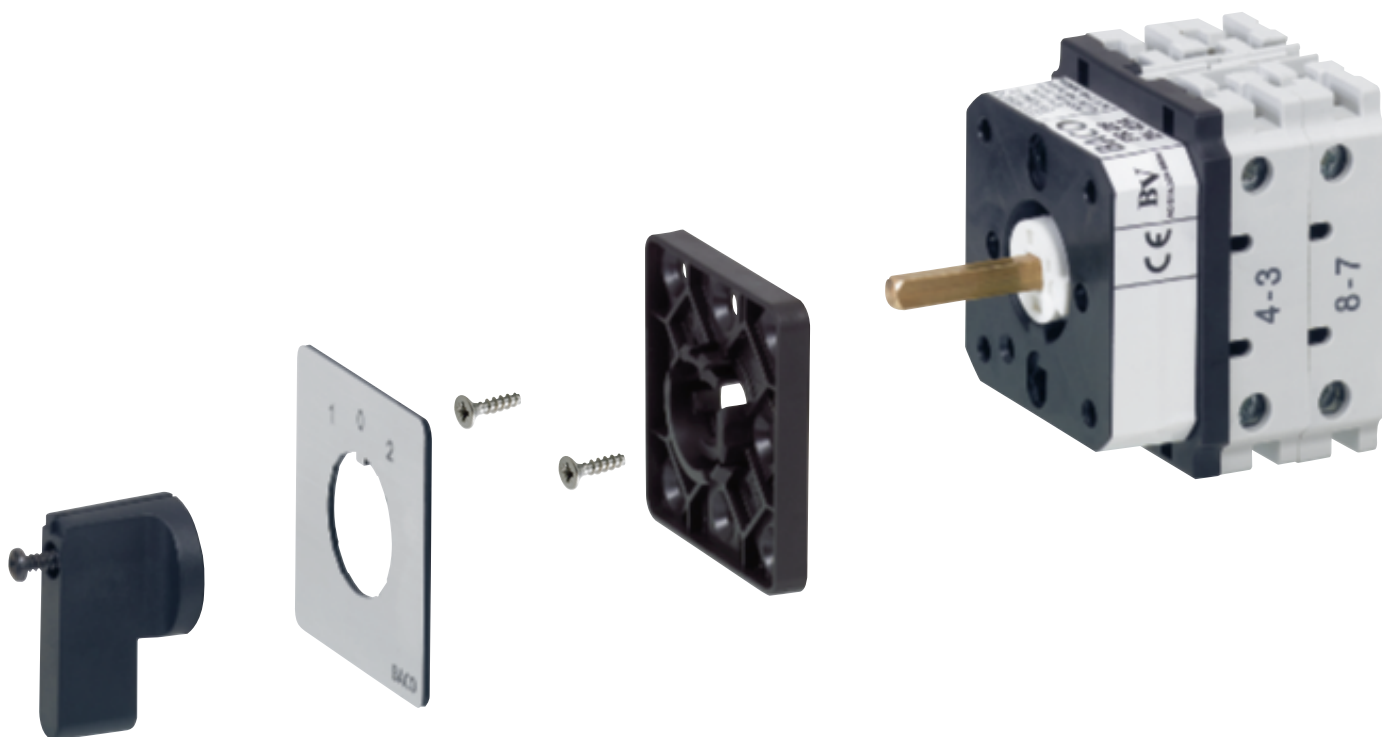
	Rating	Diagram	Mounting	Presentation	Option 1	Option 2...
DESIGNATION	PR 63	2251 A4	S	Q72 MN	"pump 1 - pump 2"	-
PRICE LIST CODE	I	A02Z -	Y508	Q72 MN	Y000	-
Observations	PR 63 AC21 = 63 A	2 way without off, 1 pole 90° switching angle	Rear mounting	□ 72 plate and frame presenta- tion Medium handle	Standard engraving	

PR ONE cam switch Series

A selection of standard switching programmes and mounting forms for practical reliable solutions to be achieved quickly

► DESIGN AND FUNCTIONS

- 45° switching angle
- Forced opened contacts
- Finger protected (degree of protection up to IP 20)
- Short-circuit rated
- Fulfills the load of break requirements up to 690 V
- Terminal screws in open position
- Switching capacity I_e (A): 16 A, 25 A and 32 A in AC21
- Manually operated control switches
- Front presentation: aluminium plate with black handle with index
- Laser marking on escutcheon
- Front degree of protection IP 40
- 2-screw panel mount - interval 30 mm



► APPLICATIONS

- ON-OFF switches
- Changeover switches
- Multi-step switches
- Instrument switches

Standard circuits diagrams from 16 A, 25 A
up to 32 A

The expertise of a specialist to offer
ready-solutions



► ELECTRICAL CHARACTERISTICS

► Thermal current, I _{th} (A)		20	32	40
► Rated operating current in AC-21A, I _e (A)		16	25	32
► Rated operating current in AC-15A, I _e (A)		6	10	12
► Motor performance in AC-3 (kW)	3 x 230 V	3	4	5,5
	3 x 400 V	4	7,5	11
► Motor performance in AC-23 (kW)	3 x 230 V	4	7,5	11
	3 x 400 V	7,5	11	11
► Rated insulation voltage, U _i (V)		690	690	690
► Rated short time withstand current, I _{cw} (A) for 1 sec		300	420	800
► Maximum wire size (mm ² rigid / flexible)		4 / 2,5	6 / 4	6 / 6
► Mechanical durability (nb of operations)		800 000 (max. rate 150 per hour)		
► Operating temperature limits		-20°C to 70°C		
► Degree of protection	Front	IP 40 IP 2X		
	Rear			

► FINGER PROTECTED

Degree of protection up to IP 20

► CONFORMING TO STANDARDS

IEC EN 60947-1
IEC EN 60947-3
UL 508
UL-CSA approved

PR ONE cam switches



Dimensions (p. 133)

► ON-OFF SWITCHES

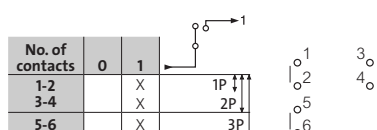
From 1 to 3 poles, each pole being a path for the current, the circuit being open at starting position 0, and closed at position 1

2-screw panel mount - interval: 30 mm

Cat. No.



227603



16 A

1P-1 contact
2P-2 contacts
3P-3 contacts



227600
227601
227602

25 A

1P-1 contact
2P-2 contact
3P-3 contacts



227603
227604
227605

32 A

1P-1 contact
3P-3 contacts



227606
227608

► CHANGE-OVER SWITCHES WITH «OFF» POSITION

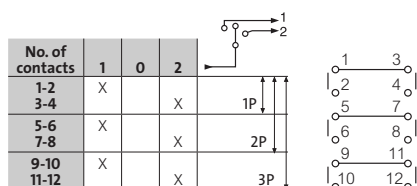
From 1 to 3 poles, each pole having two current paths, open at starting position 0, one path closes on position 1, the other on position 2

2-screw panel mount - interval: 30 mm

Cat. No.



227609



16 A

1P-2 contacts
2P-4 contacts
3P-6 contacts



227609
227610
227611

25 A

1P-2 contacts
2P-4 contacts
3P-6 contacts



227612
227613
227614

32 A

1P-2 contacts
3P-4 contacts
3P-6 contacts



227615
227616
227617

PR ONE cam switches



Dimensions (p. 133)

SELECTOR SWITCHES

2 to 5-way switches, each pole being respectively from 2 to 5 paths for the current, the starting position is at 0

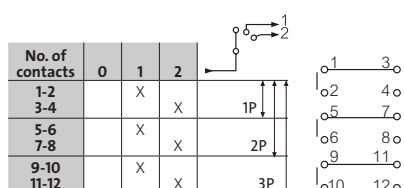
2-WAY SWITCHES WITH OFF

2-screw panel mount - interval: 30 mm

Cat. No.



227630



16 A

1P-2 contacts
2P-4 contacts
3P-6 contacts



227618
227619
227620

25 A

1P-2 contacts
2P-4 contacts
3P-6 contacts



227624
227625
227626

32 A

1P-2 contacts
3P-4 contacts
3P-6 contacts



227630
227631
227632

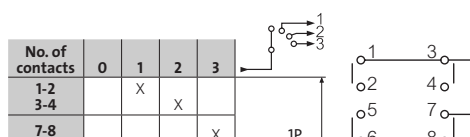
3-WAY SWITCHES WITH OFF

2-screw panel mount - interval: 30 mm

Cat. No.



227621



16 A

1P-3 contacts



227621

25 A

1P-3 contacts

227627

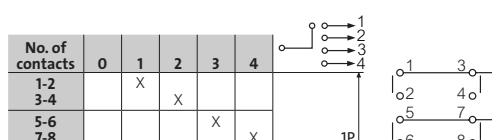
4-WAY SWITCHES WITH OFF

2-screw panel mount - interval: 30 mm

Cat. No.



227622



16 A

1P-4 contacts



227622

PR ONE cam switches



Dimensions (p. 133)

► SELECTOR SWITCHES (CONTINUED)

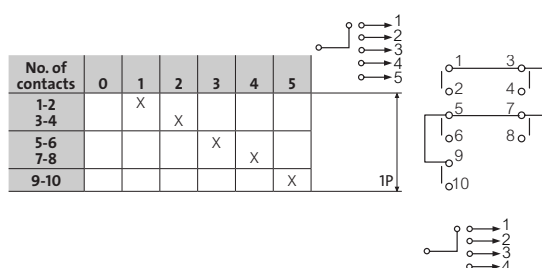
5-WAY SWITCHES WITH OFF

2-screw panel mount - interval: 30 mm

Cat. No.



227623



16 A
1P-5 contacts

25 A
1P-5 contacts



227623

227629

► INSTRUMENT SWITCHES

For ammeters wired in 3 CT's connected into the corresponding circuits. The CT's can be mounted in series with common point.
For voltmeters wired into 3-phase networks with neutral.

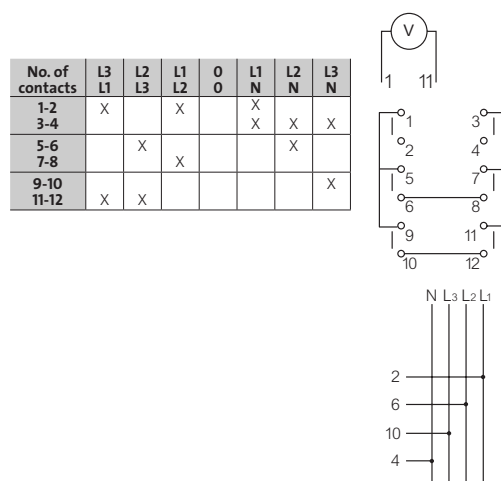
VOLTMETER SWITCH, WITH NEUTRAL

2-screw panel mount - interval: 30 mm

Cat. No.



227636



16 A
6 contacts



227636

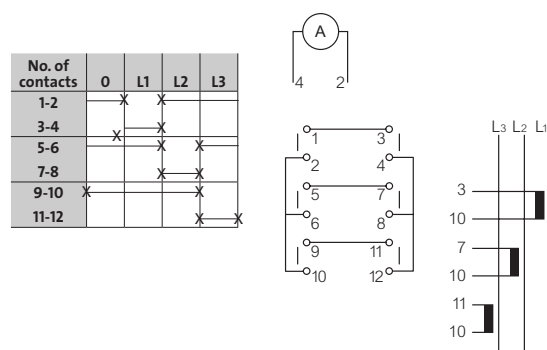
AMMETER SWITCH, 3 CTS WITH COMMON POINT

2-screw panel mount - interval: 30 mm

Cat. No.



227637



16 A
6 contacts

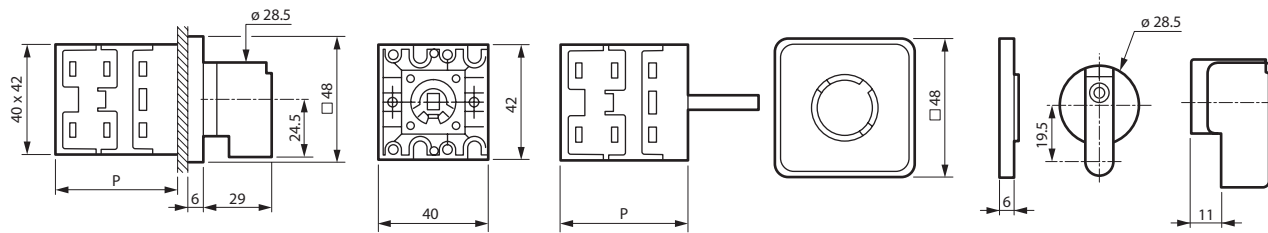


227637

PR ONE cam switches

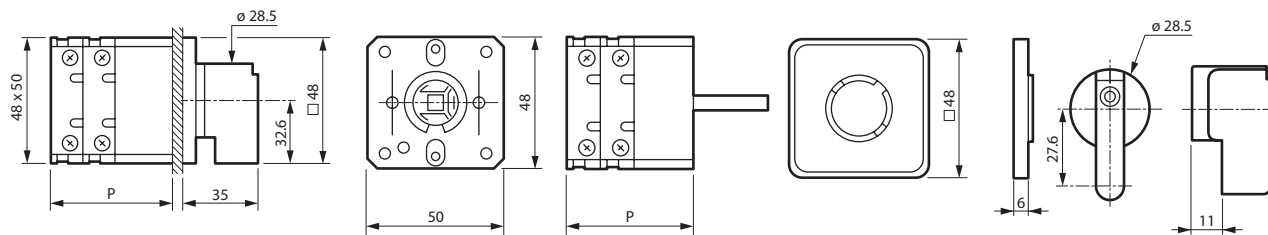
► DIMENSIONS

PR One 16 A (ie)



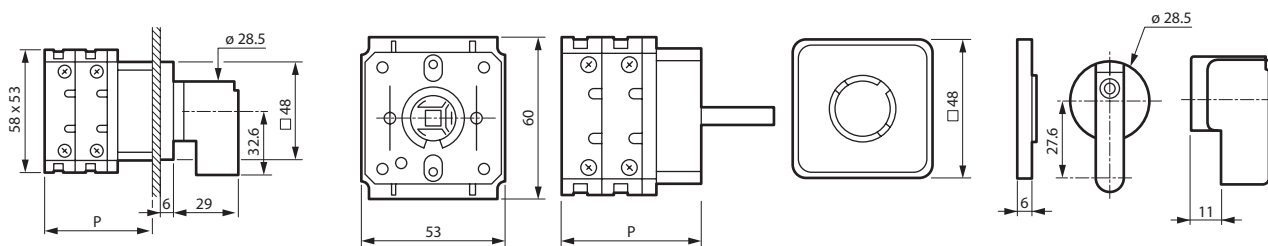
Dimensions in mm
 *P : 36 (1-2 contacts)
 46 (3-4 contacts)
 56 (5-6 contacts)

PR One 25 A (ie)



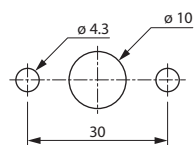
Dimensions in mm
 *P : 33 (1-2 contacts)
 45 (3-4 contacts)
 57 (5-6 contacts)

PR One 32 A (ie)



Dimensions in mm
 *P : 36 (1-2 contacts)
 51 (3-4 contacts)
 66 (5-6 contacts)

► PANEL CUT-OUT



Cam switches



Characteristics (p. 213)

ON-OFF SWITCH

No. of contacts	0	1			
1-2		X	1P	1	3
3-4		X	2P	2	4
5-6		X	3P	5	7
7-8		X	4P	6	8

MINI CAM SWITCH - 10 A (AC21)

Ø 16 and 22 single hole front mounting

Cat. No.



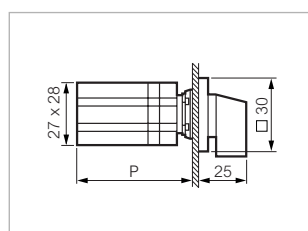
223501

□ 30 aluminium plate and frame

1P - 1 contact
2P - 2 contacts
3P - 3 contacts
4P - 4 contacts



223501
223502
223503
223504



Dimensions in mm
*P: 50 (1-2 CONTACTS)
62 (3-4 CONTACTS)

PR 12 - 16 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



NB02AQ1

Designation

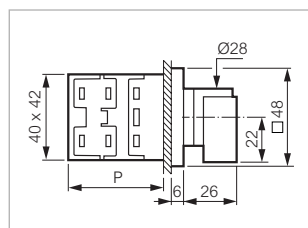
Grey/black small handle
□ 48 aluminium plate and frame

1P - 1 contact
2P - 2 contacts
3P - 3 contacts
4P - 4 contacts



PR12 1101 A4 E Q48PN
PR12 1102 A4 E Q48PN
PR12 1103 A4 E Q48PN
PR12 1104 A4 E Q48PN

NB01AQ1
NB02AQ1
NB03AQ1
NB04AQ1



Dimensions in mm
*P: 36 (1-2 CONTACTS)
46 (3-4 CONTACTS)

1P - 1 contact
2P - 2 contacts
3P - 3 contacts



PR12 1101 A8 E Q48PN
PR12 1102 A8 E Q48PN
PR12 1103 A8 E Q48PN

NB01EQ1
NB02EQ1
NB03EQ1

*P = Depth

Catalogue No. in bold: normally in stock at distribution outlets

Cam switches



Characteristics (p. 213)

► ON-OFF SWITCH (CONTINUED)

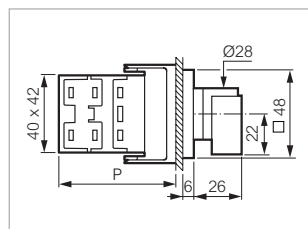
PR 12 - 16 A (AC21)

Ø 22 single hole front mounting

Cat. No.



NB03EX80



Dimensions in mm
*P: 51 (1-2 CONTACTS)
61 (3-4 CONTACTS)

Designation

Grey/black small handle
□ 48 aluminium plate and frame

1P - 1 contact
2P - 2 contacts
3P - 3 contacts
4P - 4 contacts



PR12 1101 A4 E N48MD50
PR12 1102 A4 E N48MD50
PR12 1103 A4 E N48MD50
PR12 1104 A4 E N48MD50

NB01AX80
NB02AX80
NB03AX80
NB04AX80

1P - 1 contact
2P - 2 contacts
3P - 3 contacts



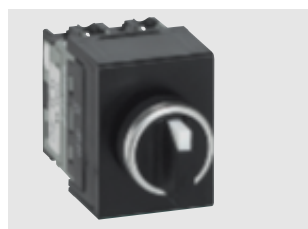
PR12 1101 A8 E N48MD50
PR12 1102 A8 E N48MD50
PR12 1103 A8 E N48MD50

NB01EX80
NB02EX80
NB03EX80

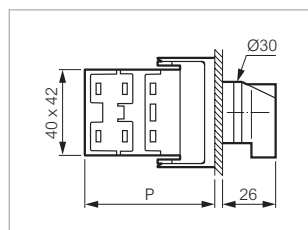
PR 12 - 16 A (AC21)

Ø 22 single hole front mounting

Cat. No.



NB03AC113



Dimensions in mm
*P: 51 (1-2 CONTACTS)
61 (3-4 CONTACTS)

Designation

Selector switch style handle
Matt chrome plastic bezel

1P - 1 contact
2P - 2 contacts
3P - 3 contacts
4P - 4 contacts



PR12 1101 A4 E C21RA03
PR12 1102 A4 E C21RA03
PR12 1103 A4 E C21RA03
PR12 1104 A4 E C21RA03

NB01AC113
NB02AC113
NB03AC113
NB04AC113

*P = Depth

Catalogue No. in bold: normally in stock at distribution outlets

Cam switches



Characteristics (p. 213)

► ON-OFF SWITCH (CONTINUED)

PR 12 - 16 A (AC21)

Enclosure

Cat. No.



NB02AGQ

Grey/black small handle
□ 48 aluminium plate

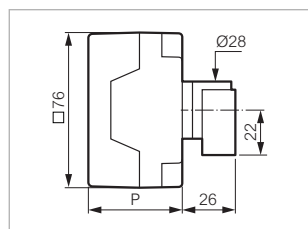
1P - 1 contact
2P - 2 contacts
3P - 3 contacts
4P - 4 contacts



Designation

PR12 1101 A4 BPRQ48PN
PR12 1102 A4 BPRQ48PN
PR12 1103 A4 BPRQ48PN
PR12 1104 A4 BPRQ48PN

NB01AGQ
NB02AGQ
NB03AHQ
NB04AHQ



Dimensions in mm

*P: 46 (1-2 CONTACTS)
58 (3-4 CONTACTS)

PR 17 - 20 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



SB04AQ1

Grey/black small handle
□ 48 aluminium plate and frame

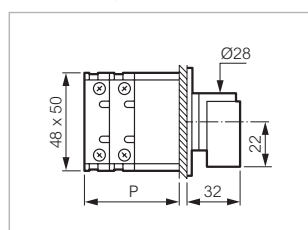
1P - 1 contact
2P - 2 contacts
3P - 3 contacts
4P - 4 contacts



Designation

PR17 1101 A4 E Q48PN
PR17 1102 A4 E Q48PN
PR17 1103 A4 E Q48PN
PR17 1104 A4 E Q48PN

SB01AQ1
SB02AQ1
SB03AQ1
SB04AQ1



Dimensions in mm

*P: 33 (1-2 CONTACTS)
45 (3-4 CONTACTS)

3P - 3 contacts
4P - 4 contacts



PR17 1103 A8 E Q48PN
PR17 1104 A8 E Q48PN

SB03EQ1
SB04EQ1

*P = Depth

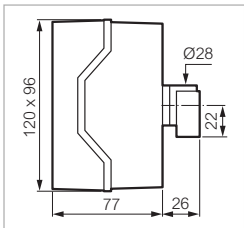
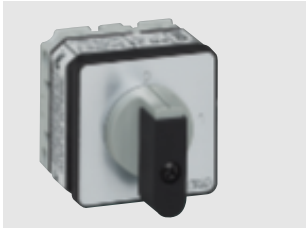
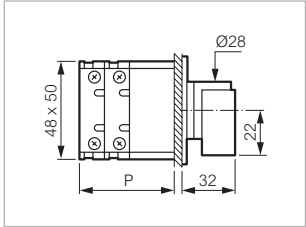
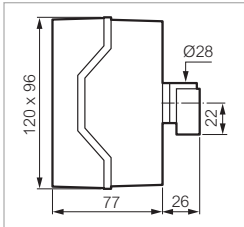
Catalogue No. in bold: normally in stock at distribution outlets

Cam switches



Characteristics (p. 213)

► ON-OFF SWITCH (CONTINUED)

PR 17 -20 A (AC21)	Enclosure		Designation	Cat. No.
 SB02AXQ	 Black small handle □ 64 aluminium plate 1P - 1 contact 2P - 2 contacts 3P - 3 contacts 4P - 4 contacts 		PR17 1101 A4 BCQ3 PR17 1102 A4 BCQ3 PR17 1103 A4 BCQ3 PR17 1104 A4 BCQ3	SB01AXQ SB02AXQ SB03AXQ SB04AXQ
PR 21 -25 A (AC21)	2-screw panel mount – interval: 30 mm		Designation	Cat. No.
 TB01AQ1	 Dimensions in mm *P: 33 (1-2 CONTACTS) 45 (3-4 CONTACTS)	Grey/black small handle □ 48 aluminium plate and frame 1P - 1 contact 2P - 2 contacts 3P - 3 contacts 4P - 4 contacts  3P - 3 contacts 	PR21 1101 A4 E Q48PN PR21 1102 A4 E Q48PN PR21 1103 A4 E Q48PN PR21 1104 A4 E Q48PN PR21 1103 A8 E Q48PN	TB01AQ1 TB02AQ1 TB03AQ1 TB04AQ1 TB03EQ1
PR 21 -25 A (AC21)	Enclosure		Designation	Cat. No.
 TB01AXQ	 Black small handle □ 64 aluminium plate 1P - 1 contact 2P - 2 contacts 3P - 3 contacts 4P - 4 contacts 		PR21 1101 A4 BCQ3 PR21 1102 A4 BQ3 PR21 1103 A4 BCQ3 PR21 1104 A4 BCQ3	TB01AXQ TB02AXQ TB03AXQ TB04AXQ

*P = Depth

Catalogue No. in bold: normally in stock at distribution outlets

Cam switches



Characteristics (p. 213)

► ON-OFF SWITCH (CONTINUED)

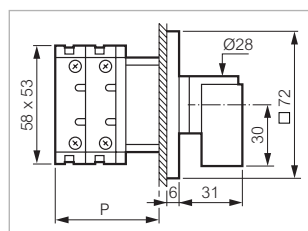
PR 26 -32 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



ZB04AQ7



Dimensions in mm
*P: 36 (1-2 CONTACTS)
51 (3-4 CONTACTS)

Grey/black medium handle
□ 72 aluminium plate and frame

Designation

1P - 1 contact
2P - 2 contacts
3P - 3 contacts
4P - 4 contacts



PR26 1101 A4 E Q72MN
PR26 1102 A4 E Q72MN
PR26 1103 A4 E Q72MN
PR26 1104 A4 E Q72MN

ZB01AQ7
ZB02AQ7
ZB03AQ7
ZB04AQ7

3P - 3 contacts



PR26 1103 A8 E Q72MN

ZB03EQ7

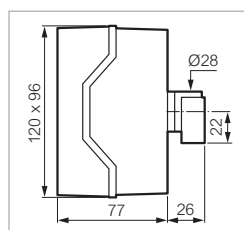
PR 26 -32 A (AC21)

Enclosure

Cat. No.



ZB02AXQ



Black small handle
□ 72 aluminium plate

Designation

1P - 1 contact
2P - 2 contacts
3P - 3 contacts
4P - 4 contacts



PR26 1101 A4 BCQ3
PR26 1102 A4 BCQ3
PR26 1103 A4 BCQ3
PR26 1104 A4 BCQ3

ZB01AXQ
ZB02AXQ
ZB03AXQ
ZB04AXQ

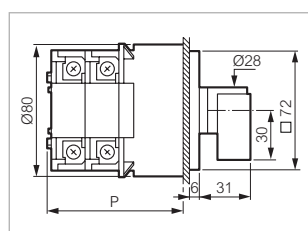
PR 40 -50 A (AC21)

2-screw panel mount - interval: 50 mm

Cat. No.



HB03AQ7



Dimensions in mm
*P: 60 (1-2 CONTACTS)
80 (3-4 CONTACTS)

Grey/black medium handle
□ 72 aluminium plate and frame

Designation

1P - 1 contact
2P - 2 contacts
3P - 3 contacts
4P - 4 contacts



PR40 1101 A4 E Q72MN
PR40 1102 A4 E Q72MN
PR40 1103 A4 E Q72MN
PR40 1104 A4 E Q72MN

HB01AQ7
HB02AQ7
HB03AQ7
HB04AQ7

*P = Depth

Catalogue No. in bold: normally in stock at distribution outlets

Cam switches



Characteristics (p. 213)

► ON-OFF SWITCH (CONTINUED)

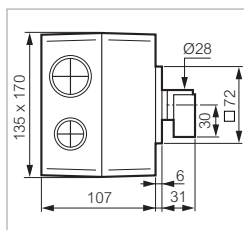
PR 40 -50 A (AC21)

Enclosure

Cat. No.



HB02AAQ



Designation

Grey/black medium handle
□ 72 aluminium plate and frame

1P - 1 contact
2P - 2 contacts
3P - 3 contacts
4P - 4 contacts



PR40 1101 A4 BCFQ72MN
PR40 1102 A4 BCFQ72MN
PR40 1103 A4 BCFQ72MN
PR40 1104 A4 BCFQ72MN

HB01AAQ
HB02AAQ
HB03ABQ
HB04ABQ

PR 63 -63 A (AC21)

2-screw panel mount - interval: 50 mm

Cat. No.



IB03AQ7

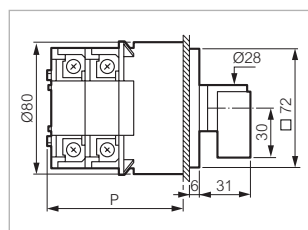
Grey/black medium handle
□ 72 aluminium plate and frame

1P - 1 contact
2P - 2 contacts
3P - 3 contacts
4P - 4 contacts



PR63 1101 A4 E Q72MN
PR63 1102 A4 E Q72MN
PR63 1103 A4 E Q72MN
PR63 1104 A4 E Q72MN

IB01AQ7
IB02AQ7
IB03AQ7
IB04AQ7



Dimensions in mm
*P: 60 (1-2 CONTACTS)
80 (3-4 CONTACTS)

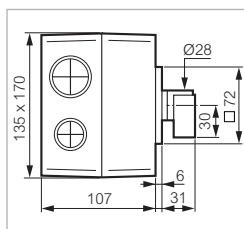
PR 63 -63 A (AC21)

Enclosure

Cat. No.



IB02AAQ



Designation

Grey/black medium handle
□ 72 aluminium plate and frame

1P - 1 contact
2P - 2 contacts
3P - 3 contacts
4P - 4 contacts



PR63 1101 A4 BCF140Q72MN
PR63 1102 A4 BCF140Q72MN
PR63 1103 A4 BCF240Q72MN
PR63 1104 A4 BCF240Q72MN

IB01AAQ
IB02AAQ
IB03ABQ
IB04ABQ

*P = Depth

Catalogue No. in bold: normally in stock at distribution outlets

Cam switches



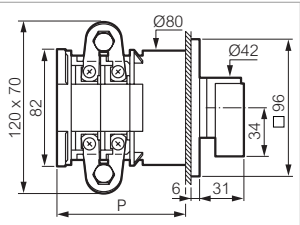
Characteristics (p. 213)

ON-OFF SWITCH (CONTINUED)

PR 125 -160 A (AC21)	2-screw panel mount - interval: 50 mm	Cat. No.
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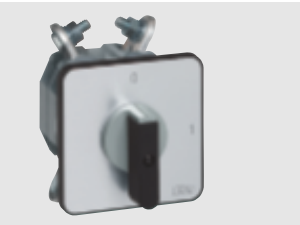
LB02AQ9



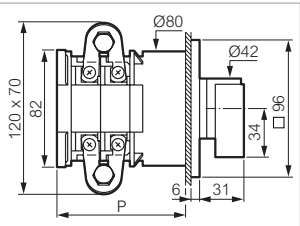
Dimensions in mm
*P: 80 (1-2 CONTACTS)
120 (3-4 CONTACTS)

Designation			
Grey/black large handle			
□ 96 aluminium plate and frame			
1P - 1 contact		PR125 1101 A4 E Q96GN	LB01AQ9
2P - 2 contacts		PR125 1102 A4 E Q96GN	LB02AQ9
3P - 3 contacts		PR125 1103 A4 E Q96GN	LB03AQ9
4P - 4 contacts		PR125 1104 A4 E Q96GN	LB04AQ9

PR 160 -200 A (AC21)	2-screw panel mount - interval: 50 mm	Cat. No.
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MB02AQ9



Dimensions in mm
*P: 80 (1-2 CONTACTS)
120 (3-4 CONTACTS)

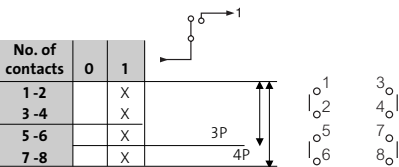
Designation			
Grey/black large handle			
□ 96 aluminium plate and frame			
1P - 1 contact		PR160 1101 A4 E Q96GN	MB01AQ9
2P - 2 contacts		PR160 1102 A4 E Q96GN	MB02AQ9
3P - 3 contacts		PR160 1103 A4 E Q96GN	MB03AQ9
4P - 4 contacts		PR160 1104 A4 E Q96GN	MB04AQ9

*P = Depth

Cam switches

 Characteristics (p. 213)

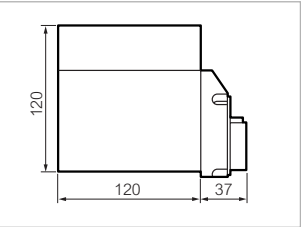
► MAIN SWITCH



PR 125 - 160 A (AC21)2-screw panel mount - interval: 50 mmCat. No.



LS3EV733

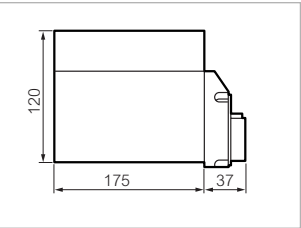


Designation			
Red padlockable handle for up to 4 padlocks □ 72 yellow frame			
With engraving MAIN SWITCH			
3P+ $\frac{1}{1}$ - 3 contacts		PR125 1103GN E J723MND61	LS3EV733
3P+N - 4 contacts		PR125 1104GN E J723MND61	LS4EV733
Without engraving			
3P+ $\frac{1}{1}$ - 3 contacts		PR125 1103GN E J72MND61	LS3EV72
3P+N - 4 contacts		PR125 1104GN E J72MND61	LS4EV72

PR 125 - 160 A (AC21)2-screw panel mount - interval: 50 mmCat. No.



LG3EV733



Designation			
Grey padlockable handle for up to 4 padlocks □ 72 grey frame			
With engraving MAIN SWITCH			
3P+ $\frac{1}{1}$ - 3 contacts		PR125 1103GN E V723MND	LG3EV733
3P+N - 4 contacts		PR125 1104GN E V723MND	LG4EV733
Without engraving			
3P+ $\frac{1}{1}$ - 3 contacts		PR125 1103GN E V72MND	LG3EV72
3P+N - 4 contacts		PR125 1104GN E V72MND	LG4EV72

Cam switches



Characteristics (p. 213)

► MAIN SWITCH (CONTINUED)

PR 125 - 160 A (AC21)

2-screw panel mount - interval: 50 mm

Cat. No.



LS3EV973

Red padlockable handle
for up to 4 padlocks
□ 96 yellow frame

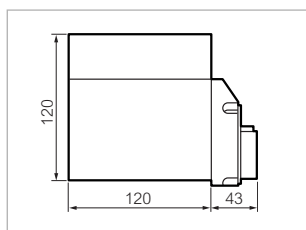
**With engraving
MAIN SWITCH**

3P+ $\frac{\perp}{\perp}$ - 3 contacts $\begin{matrix} 0 \\ \nearrow \\ 1 \end{matrix}$
3P+N - 4 contacts

Designation

PR125 1103GN E J963GND61
PR125 1104GN E J963GND61

LS3EV973
LS4EV973



PR 125 - 160 A (AC21)

Rear mounting with clutch drive and door interlock

Cat. No.



LS3RV733

Red padlockable handle
for up to 4 padlocks
□ 72 yellow frame
Clutch drive and
door interlock

**With engraving
MAIN SWITCH**

3P+ $\frac{\perp}{\perp}$ - 3 contacts $\begin{matrix} 0 \\ \nearrow \\ 1 \end{matrix}$
3P+N - 4 contacts

Designation

PR125 1103GN SV6 J723MND61
PR125 1104GN SV6 J723MND61

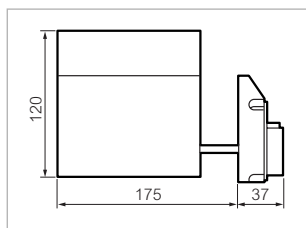
LS3RV733
LS4RV733

Without engraving

3P+ $\frac{\perp}{\perp}$ - 3 contacts $\begin{matrix} 0 \\ \nearrow \\ 1 \end{matrix}$
3P+N - 4 contacts

PR125 1103GN SV6 J72MND61
PR125 1104GN SV6 J72MND61

LS3RV72
LS4RV72



Cam switches



Characteristics (p. 213)

► MAIN SWITCH (CONTINUED)

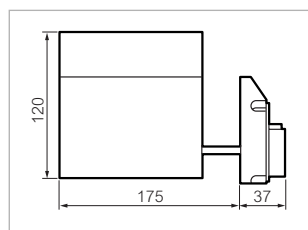
PR 125 - 160 A (AC21)

Rear mounting with clutch drive and door interlock

Cat. No.



LG3RV733



Designation

Grey padlockable handle
for up to 4 padlocks
□ 72 grey frame

**With engraving
MAIN SWITCH**

3P+ $\frac{1}{1}$ - 3 contacts $\begin{matrix} 0 \\ \nearrow \\ 1 \end{matrix}$
3P+N - 4 contacts

PR125 1103GN SV6 V723MND
PR125 1104GN SV6 V723MND

LG3RV733
LG4RV733

Without engraving

3P+ $\frac{1}{1}$ - 3 contacts $\begin{matrix} 0 \\ \nearrow \\ 1 \end{matrix}$
3P+N - 4 contacts

PR125 1103GN SV6 V72MND
PR125 1104GN SV6 V72MND

LG3RV72
LG4RV72

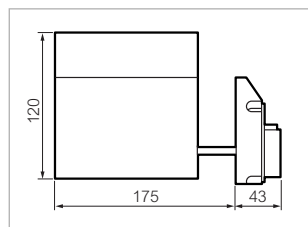
PR 125 - 160 A (AC21)

Rear mounting with clutch drive and door interlock

Cat. No.



LS3RV973



Designation

Red padlockable handle
for up to 4 padlocks
□ 96 yellow frame

**With engraving
MAIN SWITCH**

3P+ $\frac{1}{1}$ - 3 contacts $\begin{matrix} 0 \\ \nearrow \\ 1 \end{matrix}$
3P+N - 4 contacts

PR125 1103GN SV6 J963GND61
PR125 1104GN SV6 J963GND61

LS3RV973
LS4RV973

Cam switches

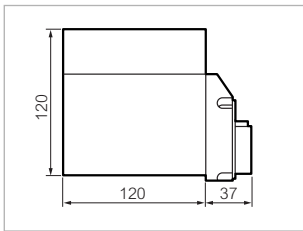


Characteristics (p. 213)

► MAIN SWITCH (CONTINUED)

PR 160 -200 A (AC21)
2-screw panel mount - interval: 50 mm
Cat. No.


MS3EV733


 Red padlockable handle
for up to 4 padlocks
□ 72 yellow frame

**With engraving
MAIN SWITCH**

 3P+ $\frac{1}{1}$ - 3 contacts $\begin{matrix} 0 \\ \nearrow \\ 1 \end{matrix}$
3P+N - 4 contacts

Designation

 PR160 1103GN E J723MND61
PR160 1104GN E J723MND61

 MS3EV733
MS4EV733

Without engraving

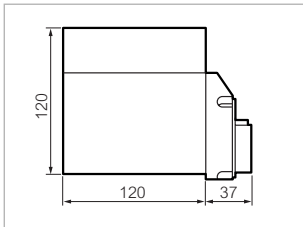
 3P+ $\frac{1}{1}$ - 3 contacts $\begin{matrix} 0 \\ \nearrow \\ 1 \end{matrix}$
3P+N - 4 contacts

 PR160 1103GN E J72MND61
PR160 1104GN E J72MND61

 MS3EV72
MS4EV72

PR 160 -200 A (AC21)
2-screw panel mount - interval: 50 mm
Cat. No.


MG3EV733


 Grey padlockable handle
for up to 4 padlocks
□ 72 grey frame

**With engraving
MAIN SWITCH**

 3P+ $\frac{1}{1}$ - 3 contacts $\begin{matrix} 0 \\ \nearrow \\ 1 \end{matrix}$
3P+N - 4 contacts

Designation

 PR160 1103GN E V723MND
PR160 1104GN E V723MND

 MG3EV733
MG4EV733

Without engraving

 3P+ $\frac{1}{1}$ - 3 contacts $\begin{matrix} 0 \\ \nearrow \\ 1 \end{matrix}$
3P+N - 4 contacts

 PR160 1103GN E V72MND
PR160 1104GN E V72MND

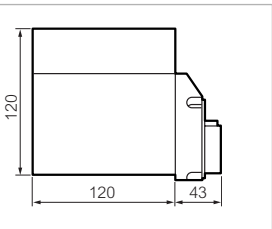
 MG3EV72
MG4EV72

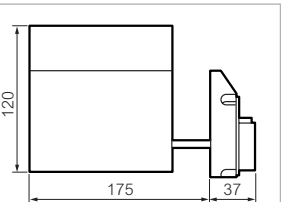
Cam switches



Characteristics (p. 213)

► MAIN SWITCH (CONTINUED)

PR 160 -200 A (AC21)	2-screw panel mount - interval: 50 mm	Cat. No.		
 MS4EV973	Designation			
	Red padlockable handle for up to 4 padlocks □ 96 yellow frame			
	With engraving MAIN SWITCH			
	3P+  - 3 contacts		PR160 1103GN E J963GND61	MS3EV973
	3P+N - 4 contacts		PR160 1104GN E J963GND61	MS4EV973
				

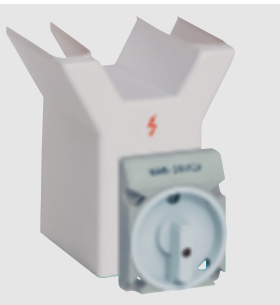
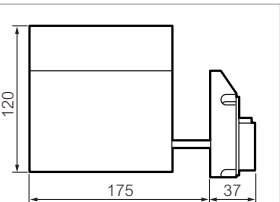
PR 160 -200 A (AC21)	Rear mounting with clutch drive and door interlock	Cat. No.		
 MS3RV733	Designation			
	Red padlockable handle for up to 4 padlocks □ 72 yellow frame Clutch drive and door interlock			
	With engraving			
	MAIN SWITCH			
	3P+ $\frac{1}{1}$ - 3 contacts	0 1	PR160 1103GN SV6 J723MND61	MS3RV733
	3P+N - 4 contacts		PR160 1104GN SV6 J723MND61	MS4RV733
	Without engraving			
	3P+ $\frac{1}{1}$ - 3 contacts	0 1	PR160 1103GN SV6 J72MND61	MS3RV72
3P+N - 4 contacts		PR160 1104GN SV6 J72MND61	MS4RV72	

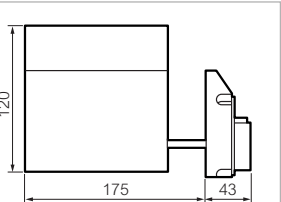
Cam switches



Characteristics (p. 213)

► MAIN SWITCH (CONTINUED)

PR 160 -200 A (AC21)	Rear mounting with clutch drive and door interlock	Cat. No.	
 MG4RV733	Grey padlockable handle for up to 4 padlocks □ 72 grey frame With engraving MAIN SWITCH 3P+ $\frac{\perp}{\equiv}$ - 3 contacts  3P+N - 4 contacts Without engraving 3P+ $\frac{\perp}{\equiv}$ - 3 contacts  3P+N - 4 contacts	Designation PR160 1103GN SV6 V723MND MG3RV733 PR160 1104GN SV6 V723MND MG4RV733	
		PR160 1103GN SV6 V72MND MG3RV72 PR160 1104GN SV6 V72MND MG4RV72	
			

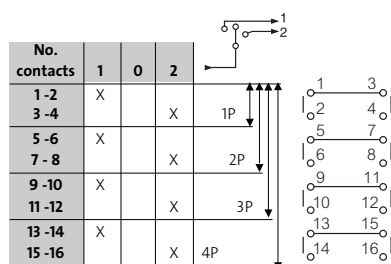
PR 160 -200 A (AC21)	Rear mounting with clutch drive and door interlock	Cat. No.	
	Red padlockable handle for up to 4 padlocks □ 96 yellow frame With engraving MAIN SWITCH 3P+ $\frac{\perp}{\equiv}$ - 3 contacts  3P+N - 4 contacts	Designation	
		PR160 1103GN SV6 V963GND61 MS3RV973	
		PR160 1104GN SV6 V963GND61 MS4RV973	
			

Cam switches



Characteristics (p. 213)

► CHANGE-OVER SWITCH WITH “OFF” POSITION



MINI CAM SWITCH - 10 A (AC21)

ø 16 and ø 22 mm single hole front mounting

Cat. No.



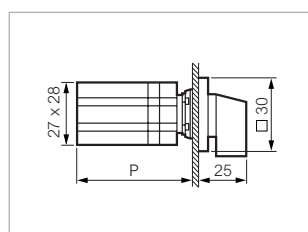
223505

□ 30 aluminium plate and frame

1P - 2 contacts
2P - 4 contacts
3P - 6 contacts
4P - 8 contacts



223505
223506
223507
223508



Dimensions in mm

*P: 50 (1-2 CONTACTS)
62 (3-4 CONTACTS)
74 (5-6 CONTACTS)
96 (7-8 CONTACTS)

PR 12 - 16 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



NC02GQ1

Designation

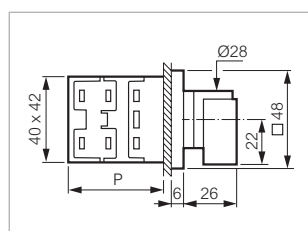
Grey/black small handle
□ 48 aluminium plate and frame

1P - 2 contacts
2P - 4 contacts
3P - 6 contacts
4P - 8 contacts



PR12 2201 C8 E Q48PN
PR12 2202 C8 E Q48PN
PR12 2203 C8 E Q48PN
PR12 2204 C8 E Q48PN

NC01GQ1
NC02GQ1
NC03GQ1
NC04GQ1



Dimensions in mm

*P: 36 (1-2 CONTACTS)
46 (3-4 CONTACTS)
56 (5-6 CONTACTS)
66 (7-8 CONTACTS)

1P - 2 contacts
2P - 4 contacts
3P - 6 contacts



PR12 2201 C4 E Q48PN
PR12 2202 C4 E Q48PN
PR12 2203 C4 E Q48PN

NC01CQ1
NC02CQ1
NC03CQ1

*P = Depth

Catalogue No. in bold: normally in stock at distribution outlets

Cam switches



Characteristics (p. 213)

► CHANGE-OVER SWITCH WITH “OFF” POSITION (CONTINUED)

PR 12 - 16 A (AC21)

Ø 22 single hole front mounting

Cat. No.



NC02GX80

Grey/black small handle
□ 48 aluminium plate and frame

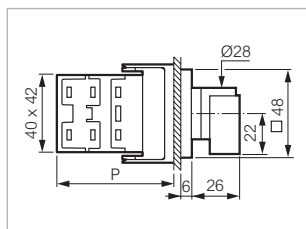
Designation

1P - 2 contacts
2P - 4 contacts
3P - 6 contacts
4P - 8 contacts



PR12 2201 C8 E N48MD50
PR12 2202 C8 E N48MD50
PR12 2203 C8 E N48MD50
PR12 2204 C8 E N48MD50

NC01GX80
NC02GX80
NC03GX80
NC04GX80



Dimensions in mm

*P: 51 (1-2 CONTACTS)
61 (3-4 CONTACTS)
71 (5-6 CONTACTS)
81 (7-8 CONTACTS)

PR 12 - 16 A (AC21)

Ø 22 single hole front mounting

Cat. No.



NC02GC113

Black handle
Matt chrome plastic bezel

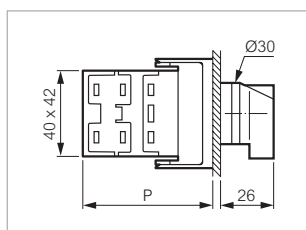
Designation

1P - 2 contacts
2P - 4 contacts
3P - 6 contacts
4P - 8 contacts



PR12 2201 C8 E C21RA03
PR12 2202 C8 E C21RA03
PR12 2203 C8 E C21RA03
PR12 2204 C8 E C21RA03

NC01GC113
NC02GC113
NC03GC113
NC04GC113



Dimensions in mm

*P: 51 (1-2 CONTACTS)
61 (3-4 CONTACTS)
71 (5-6 CONTACTS)
81 (7-8 CONTACTS)

*P = Depth

Catalogue No. in bold: normally in stock at distribution outlets

Cam switches



Characteristics (p. 213)

► CHANGE-OVER SWITCH WITH “OFF” POSITION (CONTINUED)

PR 12 - 16 A (AC21)

Enclosure

Cat. No.



NC01GXQ

Black small handle
□ 64 aluminium plate

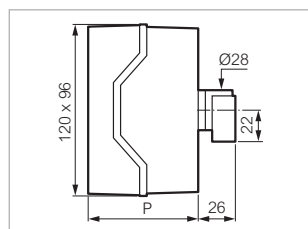
1P - 2 contacts
2P - 4 contacts
3P - 6 contacts
4P - 8 contacts



Designation

PR12 2201 C8 BCQ3
PR12 2202 C8 BCQ3
PR12 2203 C8 BCQ3
PR12 2204 C8 BCQ3

NC01GXQ
NC02GXQ
NC03GXQ
NC04GXQ



Dimensions in mm
*P: 77 (1 TO 6 CONTACTS)
101 (7-8 CONTACTS)

PR 17 - 20 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



SC04GQ1

Grey/black small handle
□ 48 aluminium plate and frame

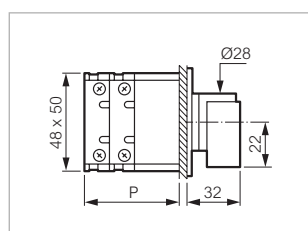
1P - 2 contacts
2P - 4 contacts
3P - 6 contacts
4P - 8 contacts



Designation

PR17 2201 C8 E Q48PN
PR17 2202 C8 E Q48PN
PR17 2203 C8 E Q48PN
PR17 2204 C8 E Q48PN

SC01GQ1
SC02GQ1
SC03GQ1
SC04GQ1



Dimensions in mm
*P: 33 (1-2 CONTACTS)
45 (3-4 CONTACTS)
57 (5-6 CONTACTS)
69 (7-8 CONTACTS)

*P = Depth

Catalogue No. in bold: normally in stock at distribution outlets

Cam switches



Characteristics (p. 213)

► CHANGE-OVER SWITCH WITH “OFF” POSITION (CONTINUED)

PR 17 - 20 A (AC21)

Enclosure

Cat. No.



SC01GXQ

Black small handle
□ 64 aluminium plate

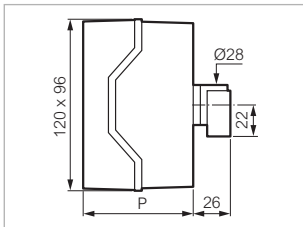
1P - 2 contacts
2P - 4 contacts
3P - 6 contacts
4P - 8 contacts



Designation

PR17 2201 C8 BCQ3
PR17 2202 C8 BCQ3
PR17 2203 C8 BCQ3
PR17 2201 C8 BCQ3

SC01GXQ
SC02GXQ
SC03GXQ
SC04GXQ



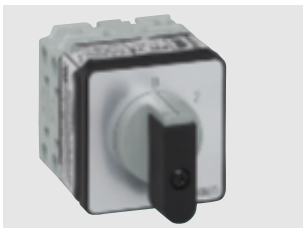
Dimensions in mm

*P: 77 (1 TO 6 CONTACTS)
101 (7-8 CONTACTS)

PR 21 - 25 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



TC02GQ1

Grey/black small handle
□ 48 aluminium plate and frame

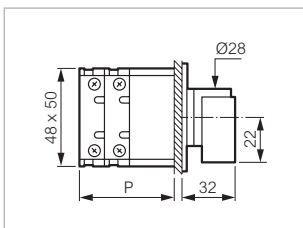
1P - 2 contacts
2P - 4 contacts
3P - 6 contacts
4P - 8 contacts



Designation

PR21 2201 C8 E Q48PN
PR21 2202 C8 E Q48PN
PR21 2203 C8 E Q48PN
PR21 2204 C8 E Q48PN

TC01GQ1
TC02GQ1
TC03GQ1
TC04GQ1



Dimensions in mm

*P: 33 (1-2 CONTACTS)
45 (3-4 CONTACTS)
57 (5-6 CONTACTS)
69 (7-8 CONTACTS)

*P = Depth

Catalogue No. in bold: normally in stock at distribution outlets

Cam switches



Characteristics (p. 213)

► CHANGE-OVER SWITCH WITH “OFF” POSITION (CONTINUED)

PR 21 - 25 A (AC21)

Enclosure

Cat. No.



TC03GXQ

Black small handle
□ 64 aluminium plate

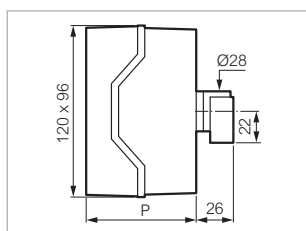
1P - 2 contacts
2P - 4 contacts
3P - 6 contacts
4P - 8 contacts



Designation

PR21 2201 C8 BCQ3
PR21 2202 C8 BCQ3
PR21 2203 C8 BCQ3
PR21 2204 C8 BCQ3

TC01GXQ
TC02GXQ
TC03GXQ
TC04GXQ



Dimensions in mm

*P: 77 (1 TO 6 CONTACTS)
101 (7-8 CONTACTS)

PR 26 - 32 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



ZC02GQ7

Grey/black medium handle
□ 72 aluminium plate and frame

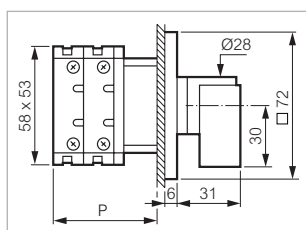
1P - 2 contacts
2P - 4 contacts
3P - 6 contacts
4P - 8 contacts



Designation

PR26 2201 C8 E Q72MN
PR26 2202 C8 E Q72MN
PR26 2203 C8 E Q72MN
PR26 2204 C8 E Q72MN

ZC01GQ7
ZC02GQ7
ZC03GQ7
ZC04GQ7



Dimensions in mm

*P: 36 (1-2 CONTACTS)
51 (3-4 CONTACTS)
66 (5-6 CONTACTS)
81 (7-8 CONTACTS)

*P = Depth

Catalogue No. in bold: normally in stock at distribution outlets

Cam switches



Characteristics (p. 213)

► CHANGE-OVER SWITCH WITH “OFF” POSITION (CONTINUED)

PR 26 - 32 A (AC21)
Enclosure
Cat. No.

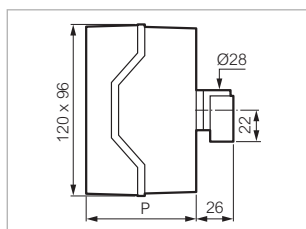

ZC04GXQ

 Black small handle
 □ 64 aluminium plate

 1P - 2 contacts
 2P - 4 contacts
 3P - 6 contacts
 4P - 8 contacts

Designation

 PR26 2201 C8 BCQ3
 PR26 2202 C8 BCQ3
 PR26 2203 C8 BCQ3
 PR26 2204 C8 BCQ3

 ZC01GXQ
 ZC02GXQ
 ZC03GXQ
ZC04GXQ

Dimensions in mm

 *P: 77 (1 TO 6 CONTACTS)
 101 (7-8 CONTACTS)

PR 40 - 50 A (AC21)
2-screw panel mount - interval: 50 mm
Cat. No.

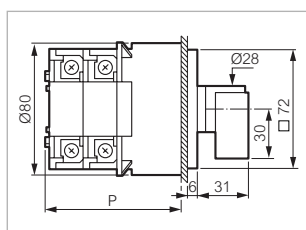

HC03GQ7

 Grey/black medium handle
 □ 72 aluminium plate and frame

 1P - 2 contacts
 2P - 4 contacts
 3P - 6 contacts
 4P - 8 contacts

Designation

 PR40 2201 C8 E Q72MN
 PR40 2202 C8 E Q72MN
 PR40 2203 C8 E Q72MN
 PR40 2204 C8 E Q72MN

 HC01GQ7
HC02GQ7
HC03GQ7
HC04GQ7

Dimensions in mm

 *P: 60 (1-2 CONTACTS)
 80 (3-4 CONTACTS)
 100 (5-6 CONTACTS)
 120 (7-8 CONTACTS)

*P = Depth

Catalogue No. in bold: normally in stock at distribution outlets

Cam switches



Characteristics (p. 213)

► CHANGE-OVER SWITCH WITH “OFF” POSITION (CONTINUED)

PR 40 - 50 A (AC21)

Enclosure

Cat. No.



HC01GAQ

Grey/black medium handle
□ 72 aluminium plate and frame

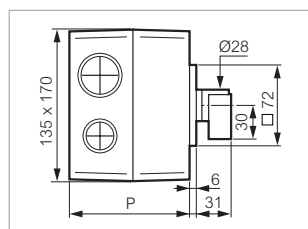
Designation

1P - 2 contacts
2P - 4 contacts
3P - 6 contacts
4P - 8 contacts



PR40 2201 C8 BCFQ72MN
PR40 2202 C8 BCFQ72MN
PR40 2203 C8 BCFQ72MN
PR40 2204 C8 BCFQ72MN

HC01GAQ
HC02GBQ
HC03GCQ
HC04GDQ



Dimensions in mm

*P: 107 (1 TO 4 CONTACTS)
145 (5 TO 8 CONTACTS)

PR 63 - 63 A (AC21)

2-screw panel mount - interval: 50 mm

Cat. No.



IC02GQ7

Grey/black medium handle
□ 72 aluminium plate and frame

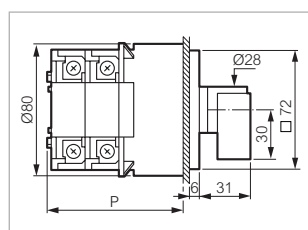
Designation

1P - 2 contacts
2P - 4 contacts
3P - 6 contacts
4P - 8 contacts



PR63 2201 C8 E Q72MN
PR63 2202 C8 E Q72MN
PR63 2203 C8 E Q72MN
PR63 2204 C8 E Q72MN

IC01GQ7
IC02GQ7
IC03GQ7
IC04GQ7



Dimensions in mm

*P: 60 (1-2 CONTACTS)
80 (3-4 CONTACTS)
100 (5-6 CONTACTS)
120 (7-8 CONTACTS)

*P = Depth

Catalogue No. in bold: normally in stock at distribution outlets

Cam switches

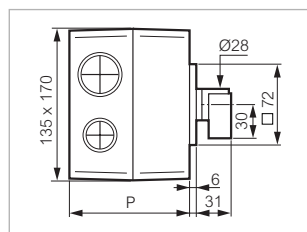


Characteristics (p. 213)

► CHANGE-OVER SWITCH WITH “OFF” POSITION (CONTINUED)

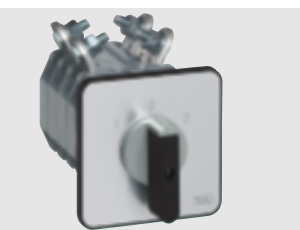
PR 63 - 63 A (AC21)	Enclosure	Cat. No.		
	Grey/black medium handle □ 72 aluminium plate and frame	Designation		
	1P - 2 contacts		PR63 2201 C8 BCFQ72MN	IC01GAQ
	2P - 4 contacts		PR63 2202 C8 BCFQ72MN	IC02GBQ
	3P - 6 contacts		PR63 2203 C8 BCFQ72MN	IC03GCQ
	4P - 8 contacts		PR63 2204 C8 BCFQ72MN	IC04GDQ
IC02GBO				

IC02GBQ

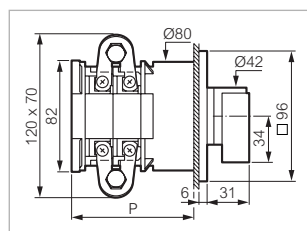


Dimensions in mm

 *P: 107 (1 TO 4 CONTACTS)
 145 (5 TO 8 CONTACTS)

PR 125 - 160 A (AC21)	2-screw panel mount - interval: 50 mm	Cat. No.		
	Designation			
	Grey/black large handle □ 96 aluminium plate and frame			
	1P - 2 contacts		PR125 2201 C8 E Q96GN	LC01GQ9
	2P - 4 contacts		PR125 2202 C8 E Q96GN	LC02GQ9
	3P - 6 contacts		PR125 2203 C8 E Q96GN	LC03GQ9
4P - 8 contacts		PR125 2204 C8 E Q96GN	LC04GQ9	

LC02GQ9



Dimensions in mm

 *P: 80 (1-2 CONTACTS)
 120 (3-4 CONTACTS)
 160 (5-6 CONTACTS)
 200 (7-8 CONTACTS)

*P = Depth

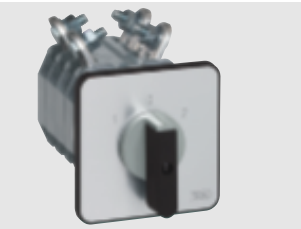
Catalogue No. in bold: normally in stock at distribution outlets

Cam switches

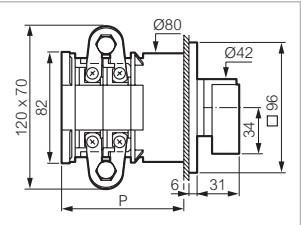
 Characteristics (p. 213)

► CHANGE-OVER SWITCH WITH “OFF” POSITION (CONTINUED)

PR 160 - 200 A (AC21)	2-screw panel mount - interval: 50 mm	Cat. No.
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MC02GQ9



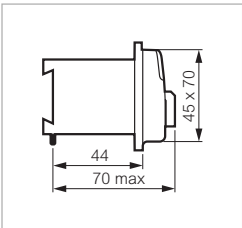
Dimensions in mm
*P: 80 (1-2 CONTACTS)
120 (3-4 CONTACTS)
160 (5-6 CONTACTS)
200 (7-8 CONTACTS)

Designation			
Grey/black large handle			
□ 96 aluminium plate and frame			
1P - 2 contacts		PR160 2201 C8 E Q96GN	MC01GQ9
2P - 4 contacts		PR160 2202 C8 E Q96GN	MC02GQ9
3P - 6 contacts		PR160 2203 C8 E Q96GN	MC03GQ9
4P - 8 contacts		PR160 2204 C8 E Q96GN	MC04GQ9

PR 12 - 16 A (AC21)	Modular in panel DIN rail mounting	Cat. No.
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NDF15



Designation		
Small grey handle		
2P - 4 contacts		PR12 2202 C8 DF
		NDF15

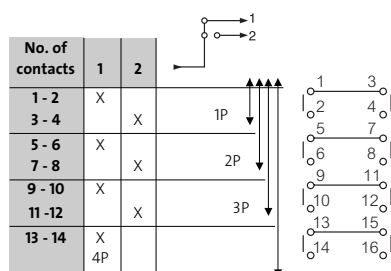
*P = Depth

Cam switches



Characteristics (p. 213)

► CHANGE-OVER SWITCH WITHOUT “OFF” POSITION



MINI CAM SWITCH - 10 A (AC21)

Ø 16 and Ø 22 mm single hole front mounting

Cat. No.



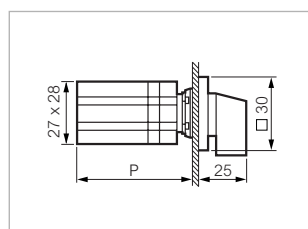
223511

□ 30 aluminium plate and frame

1P - 2 contacts
2P - 4 contacts
3P - 6 contacts
4P - 8 contacts



223511
223512
223513
223514



Dimensions in mm

*P: 50 (1-2 CONTACTS)
62 (3-4 CONTACTS)
74 (5-6 CONTACTS)
86 (7-8 CONTACTS)

PR 12 - 16 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



NC53DQ1

Designation

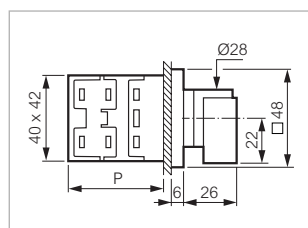
Grey/black small handle
□ 48 aluminium plate and frame

1P - 2 contacts
2P - 4 contacts
3P - 6 contacts
4P - 8 contacts



PR12 2251 D4 E Q48PN
PR12 2252 D4 E Q48PN
PR12 2253 D4 E Q48PN
PR12 2254 D4 E Q48PN

NC51DQ1
NC52DQ1
NC53DQ1
NC54DQ1



Dimensions in mm

*P: 36 (1-2 CONTACTS)
46 (3-4 CONTACTS)
56 (5-6 CONTACTS)
66 (7-8 CONTACTS)

*P = Depth

Catalogue No. in bold: normally in stock at distribution outlets

Cam switches



Characteristics (p. 213)

► CHANGE-OVER SWITCH WITHOUT “OFF” POSITION (CONTINUED)

PR 12 - 16 A (AC21)

Ø 22 single hole front mounting

Cat. No.



NC53DX80

Grey/black small handle
□ 48 aluminium plate and frame

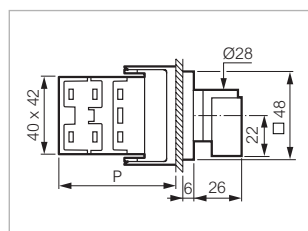
Designation

1P - 2 contacts
2P - 4 contacts
3P - 6 contacts
4P - 8 contacts



PR12 2251 D4 E N48MD50
PR12 2252 D4 E N48MD50
PR12 2253 D4 E N48MD50
PR12 2254 D4 E N48MD50

NC51DX80
NC52DX80
NC53DX80
NC54DX80



Dimensions in mm

*P: 51 (1-2 CONTACTS)
61 (3-4 CONTACTS)
71 (5-6 CONTACTS)
81 (7-8 CONTACTS)

PR 12 - 16 A (AC21)

Ø 22 single hole front mounting

Cat. No.



NC52DC113

Black handle
Matt chrome plastic bezel

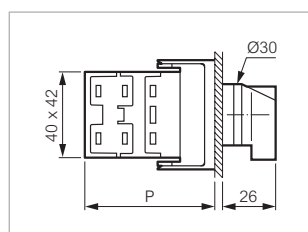
Designation

1P - 2 contacts
2P - 4 contacts
3P - 6 contacts
4P - 8 contacts



PR12 2251 D4 E C21RA03
PR12 2252 D4 E C21RA03
PR12 2253 D4 E C21RA03
PR12 2254 D4 E C21RA03

NC51DC113
NC52DC113
NC53DC113
NC54DC113



Dimensions in mm

*P: 51 (1-2 CONTACTS)
61 (3-4 CONTACTS)
71 (5-6 CONTACTS)
81 (7-8 CONTACTS)

*P = Depth

Catalogue No. in bold: normally in stock at distribution outlets

Cam switches



Characteristics (p. 213)

► CHANGE-OVER SWITCH WITHOUT “OFF” POSITION (CONTINUED)

PR 12 - 16 A (AC21)	Enclosure	Cat. No.
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NC51DXQ

Black small handle
□ 64 aluminium plate

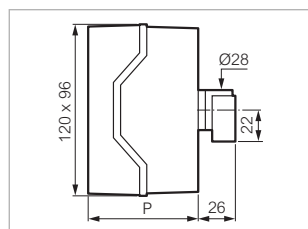
1P - 2 contacts
2P - 4 contacts
3P - 6 contacts
4P - 8 contacts



Designation

PR12 2251 D4 BCQ3
PR12 2252 D4 BCQ3
PR12 2253 D4 BCQ3
PR12 2254 D4 BCQ3

NC51DXQ
NC52DXQ
NC53DXQ
NC54DXQ



Dimensions in mm
*P: 77 (1 TO 6 CONTACTS)
101 (7 TO 8 CONTACTS)

PR 17 - 20 A (AC21)	2-screw panel mount – interval: 30 mm	Cat. No.
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SC52DQ1

Grey/black small handle
□ 48 aluminium plate and frame

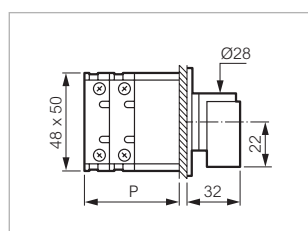
1P - 2 contacts
2P - 4 contacts
3P - 6 contacts
4P - 8 contacts



Designation

PR17 2251 D4 E Q48PN
PR17 2252 D4 E Q48PN
PR17 2253 D4 E Q48PN
PR17 2254 D4 E Q48PN

SC51DQ1
SC52DQ1
SC53DQ1
SC54DQ1



Dimensions in mm
*P: 33 (1-2 CONTACTS)
45 (3-4 CONTACTS)
57 (5-6 CONTACTS)
69 (7-8 CONTACTS)

*P = Depth

Cam switches



Characteristics (p. 213)

► CHANGE-OVER SWITCH WITHOUT “OFF” POSITION (CONTINUED)

PR 17 - 20 A (AC21)

Enclosure

Cat. No.



SC51DXQ

Black small handle
□ 64 aluminium plate

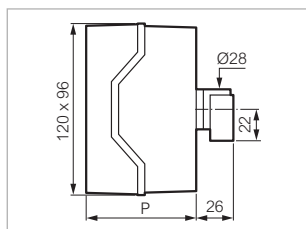
1P - 2 contacts
2P - 4 contacts
3P - 6 contacts
4P - 8 contacts



Designation

PR17 2251 D4 BCQ3
PR17 2252 D4 BCQ3
PR17 2253 D4 BCQ3
PR17 2254 D4 BCQ3

SC51DXQ
SC52DXQ
SC53DXQ
SC54DXQ



Dimensions in mm

*P: 77 (1 TO 6 CONTACTS)
101 (7 TO 8 CONTACTS)

PR 21 - 25 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



TC51DQ1

Grey/black small handle
□ 48 aluminium plate and frame

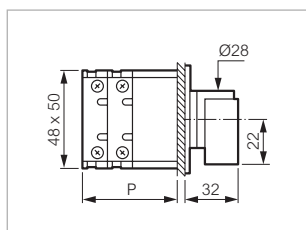
1P - 2 contacts
2P - 4 contacts
3P - 6 contacts
4P - 8 contacts



Designation

PR21 2251 D4 E Q48PN
PR21 2252 D4 E Q48PN
PR21 2253 D4 E Q48PN
PR21 2254 D4 E Q48PN

TC51DQ1
TC52DQ1
TC53DQ1
TC54DQ1



Dimensions in mm

*P: 33 (1-2 CONTACTS)
45 (3-4 CONTACTS)
57 (5-6 CONTACTS)
69 (7-8 CONTACTS)

*P = Depth

Catalogue No. in bold: normally in stock at distribution outlets

Cam switches



Characteristics (p. 213)

► CHANGE-OVER SWITCH WITHOUT “OFF” POSITION (CONTINUED)

PR 21 - 25 A (AC21)	Enclosure	Cat. No.
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TC53DXQ

Black small handle
□ 64 aluminium plate

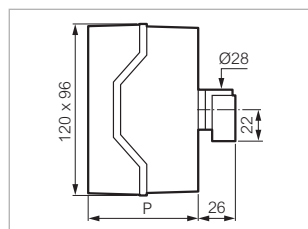
1P - 2 contacts
2P - 4 contacts
3P - 6 contacts
4P - 8 contacts



Designation

PR21 2251 D4 BCQ3
PR21 2252 D4 BCQ3
PR21 2253 D4 BCQ3
PR21 2254 D4 BCQ3

TC51DXQ
TC52DXQ
TC53DXQ
TC54DXQ



Dimensions in mm
*P: 77 (1 TO 6 CONTACTS)
101 (7 TO 8 CONTACTS)

PR 26 - 32 A (AC21)	2-screw panel mount – interval: 30 mm	Cat. No.
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ZC52DQ7

Grey/black medium handle
□ 72 aluminium plate and frame

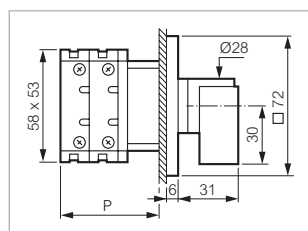
1P - 2 contacts
2P - 4 contacts
3P - 6 contacts
4P - 8 contacts



Designation

PR26 2251 D4 E Q72MN
PR26 2252 D4 E Q72MN
PR26 2253 D4 E Q72MN
PR26 2254 D4 E Q72MN

ZC51DQ7
ZC52DQ7
ZC53DQ7
ZC54DQ7



Dimensions in mm
*P: 36 (1-2 CONTACTS)
51 (3-4 CONTACTS)
66 (5-6 CONTACTS)
81 (7-8 CONTACTS)

*P = Depth

Catalogue No. in bold: normally in stock at distribution outlets

Cam switches



Characteristics (p. 213)

► CHANGE-OVER SWITCH WITHOUT “OFF” POSITION (CONTINUED)

PR 26 - 32 A (AC21)

Enclosure

Cat. No.



ZC51DXQ

Black small handle
□ 64 aluminium plate

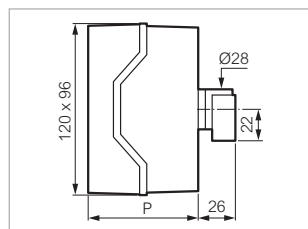
1P - 2 contacts
2P - 4 contacts
3P - 6 contacts
4P - 8 contacts



Designation

PR26 2251 D4 BCQ3
PR26 2252 D4 BCQ3
PR26 2253 D4 BCQ3
PR26 2254 D4 BCQ3

ZC51DXQ
ZC52DXQ
ZC53DXQ
ZC54DXQ



Dimensions in mm

*P: 77 (1 TO 4 CONTACTS)
101 (5 TO 8 CONTACTS)

PR 40 - 50 A (AC21)

2-screw panel mount - interval: 50 mm

Cat. No.



HC52DQ7

Grey/black medium handle
□ 72 aluminium plate and frame

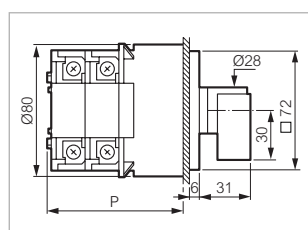
1P - 2 contacts
2P - 4 contacts
3P - 6 contacts
4P - 8 contacts



Designation

PR40 2251 D4 E Q72MN
PR40 2252 D4 E Q72MN
PR40 2253 D4 E Q72MN
PR40 2254 D4 E Q72MN

HC51DQ7
HC52DQ7
HC53DQ7
HC54DQ7



Dimensions in mm

*P: 60 (1-2 CONTACTS)

80 (3-4 CONTACTS)
100 (5-6 CONTACTS)
120 (7-8 CONTACTS)

*P = Depth

Cam switches



Characteristics (p. 213)

► CHANGE-OVER SWITCH WITHOUT “OFF” POSITION (CONTINUED)

PR 40 - 50 A (AC21)

Enclosure

Cat. No.



HC52DBQ

Grey/black medium handle
□ 72 aluminium plate and frame

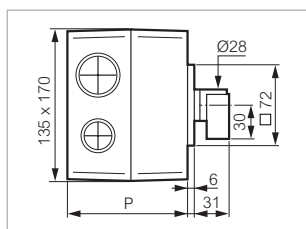
Designation

1P - 2 contacts
2P - 4 contacts
3P - 6 contacts
4P - 8 contacts



PR40 2251 D4 BCF Q72MN
PR40 2252 D4 BCF Q72MN
PR40 2253 D4 BCF Q72MN
PR40 2254 D4 BCF Q72MN

HC51DAQ
HC52DBQ
HC53DCQ
HC54DDQ



Dimensions in mm

*P: 107 (1 TO 4 CONTACTS)
145 (5 À 8 CONTACTS)

PR 63 - 63 A (AC21)

2-screw panel mount - interval: 50 mm

Cat. No.



IC51DQ7

Grey/black medium handle
□ 72 aluminium plate and frame

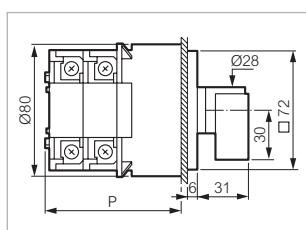
Designation

1P - 2 contacts
2P - 4 contacts
3P - 6 contacts
4P - 8 contacts



PR63 2251 D4 E Q72MN
PR63 2252 D4 E Q72MN
PR63 2253 D4 E Q72MN
PR63 2254 D4 E Q72MN

IC51DQ7
IC52DQ7
IC53DQ7
IC54DQ7



Dimensions in mm

*P: 60 (1-2 CONTACTS)
80 (3-4 CONTACTS)
100 (5-6 CONTACTS)
120 (7-8 CONTACTS)

*P = Depth

Cam switches



Characteristics (p. 213)

► CHANGE-OVER SWITCH WITHOUT “OFF” POSITION (CONTINUED)

PR 63 - 63 A (AC21)

Enclosure

Cat. No.



IC52DBQ

Grey/black medium handle
□ 72 aluminium plate and frame

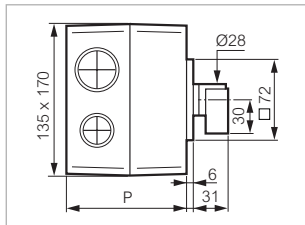
Designation

1P - 2 contacts
2P - 4 contacts
3P - 6 contacts
4P - 8 contacts



PR63 2251 D4 BCF Q72MN
PR63 2252 D4 BCF Q72MN
PR63 2253 D4 BCF Q72MN
PR63 2254 D4 BCF Q72MN

IC51DAQ
IC52DBQ
IC53DCQ
IC54DDQ



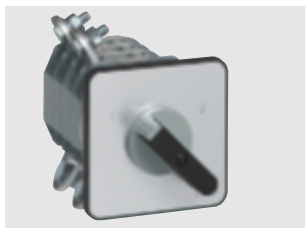
Dimensions in mm

*P: 107 (1 TO 4 CONTACTS)
145 (5 À 8 CONTACTS)

PR 125 - 160 A (AC21)

2-screw panel mount - interval: 50 mm

Cat. No.



LC52DQ9

Grey/black large handle
□ 96 aluminium plate and frame

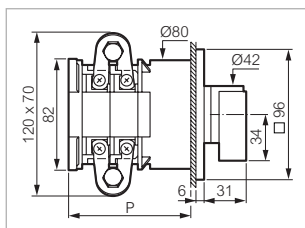
Designation

1P - 2 contacts
2P - 4 contacts
3P - 6 contacts
4P - 8 contacts



PR125 2251 D4 E Q96GN
PR125 2252 D4 E Q96GN
PR125 2253 D4 E Q96GN
PR125 2254 D4 E Q96GN

LC51DQ9
LC52DQ9
LC53DQ9
LC54DQ9



Dimensions in mm

*P: 80 (1-2 CONTACTS)
120 (3-4 CONTACTS)
160 (5-6 CONTACTS)
200 (7-8 CONTACTS)

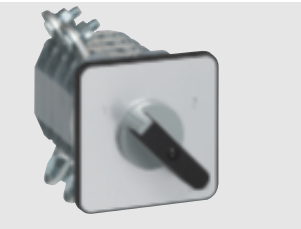
*P = Depth

Cam switches

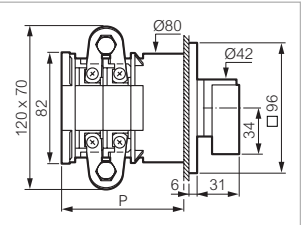
 Characteristics (p. 213)

► CHANGE-OVER SWITCH WITHOUT “OFF” POSITION (CONTINUED)

PR 160 - 200 A (AC21) 2-screw panel mount - interval: 50 mm Cat. No.



MC52DQ9



Dimensions in mm
*P: 80 (1-2 CONTACTS)
120 (3-4 CONTACTS)
160 (5-6 CONTACTS)
200 (7-8 CONTACTS)

		Designation	
Grey/black large handle			
□ 96 aluminium plate and frame			
1P - 2 contacts		PR160 2251 D4 E Q96GN	MC51DQ9
2P - 4 contacts		PR160 2252 D4 E Q96GN	MC52DQ9
3P - 6 contacts		PR160 2253 D4 E Q96GN	MC53DQ9
4P - 8 contacts		PR160 2254 D4 E Q96GN	MC54DQ9

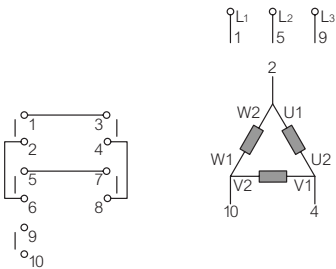
*P = Depth

Cam switches

 Characteristics (p. 213)

► 3 PHASE MOTOR SWITCH, FORWARD/REVERSE, 1 SPEED

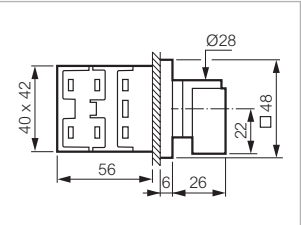
No. of contacts	REV	0	FWD
1-2	X		
3-4			X
5-6			X
7-8	X		
9-10	X		X



PR 12 - 16 A (AC21) 2-screw panel mount – interval: 30 mm Cat. No.



NZ11GQ1



Designation

Grey/black small handle
□ 48 aluminium plate and frame
P= 4 kW in 400 V

5 contacts



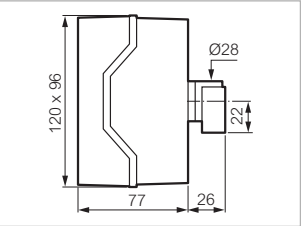
PR12 9151 C8 E Q48PN

NZ11GQ1

PR 12 - 16 A (AC21) Enclosure Cat. No.



NZ11GXQ



Designation

Black small handle
□ 64 aluminium plate
P= 4 kW in 400 V

5 contacts



PR12 9151 C8 BCQ3

NZ11GXQ

Cam switches



Characteristics (p. 213)

► 3 PHASE MOTOR SWITCH, FORWARD/REVERSE, 1 SPEED (CONTINUED)

PR 17 - 20 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



SZ11GQ1

Designation

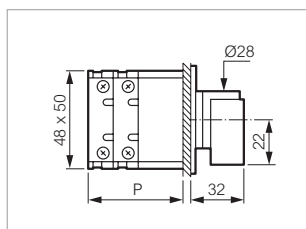
Grey/black small handle
□ 48 aluminium plate and frame
P= 7.5 kW in 400 V

5 contacts



PR17 9151 C8 E Q48PN

SZ11GQ1



PR 17 - 20 A (AC21)

Enclosure

Cat. No.



SZ11GXQ

Designation

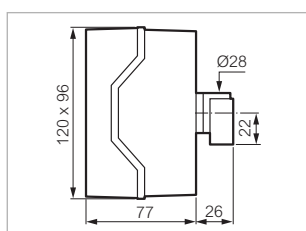
Black small handle
□ 64 aluminium plate
P= 7.5 kW in 400 V

5 contacts



PR17 9151 C8 BCQ3

SZ11GXQ

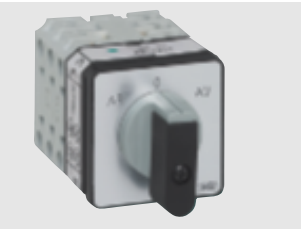


Cam switches

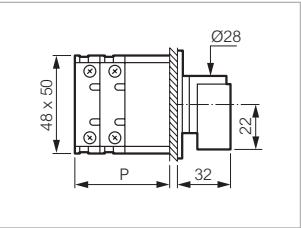
 Characteristics (p. 213)

► 3 PHASE MOTOR SWITCH, FORWARD/REVERSE, 1 SPEED (CONTINUED)

PR 21 - 25 A (AC21)	2-screw panel mount – interval: 30 mm	Cat. No.
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TZ11GQ1

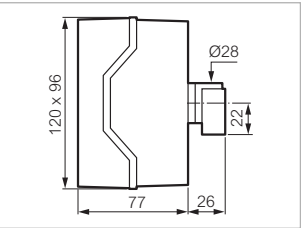


Designation		
Grey/black small handle		
□ 48 aluminium plate and frame		
P= 7,5 kW in 400 V		
5 contacts		PR21 9151 C8 E Q48PN
		TZ11GQ1

PR 21 - 25 A (AC21)	Enclosure	Cat. No.
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TZ11GXQ



Designation		
Black small handle		
□ 64 aluminium plate		
P= 7,5 kW in 400 V		
5 contacts		PR21 9151 C8 BCQ3
		TZ11GXQ

Cam switches



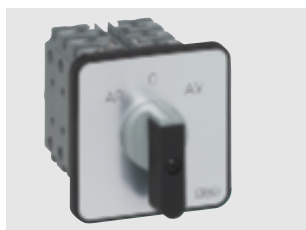
Characteristics (p. 213)

► 3 PHASE MOTOR SWITCH, FORWARD/REVERSE, 1 SPEED (CONTINUED)

PR 26 - 32 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



ZZ11GQ7

Grey/black medium handle
□ 72 aluminium plate and frame
P= 11 kW in 400 V

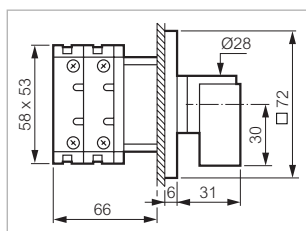
5 contacts



Designation

PR26 9151 C8 E Q72MN

ZZ11GQ7



PR 26 - 32 A (AC21)

Enclosure

Cat. No.



ZZ11GXQ

Black small handle
□ 64 aluminium plate
P= 11 kW in 400 V

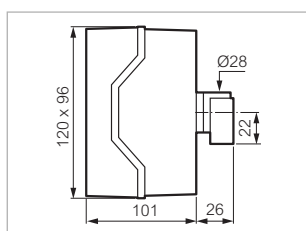
5 contacts



Designation

PR26 9151 C8 BCQ3

ZZ11GXQ



Cam switches



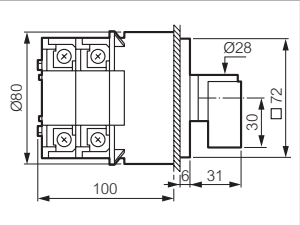
Characteristics (p. 213)

3 PHASE MOTOR SWITCH, FORWARD/REVERSE, 1 SPEED (CONTINUED)

PR 40 - 50 A (AC21)	2-screw panel mount - interval: 50 mm	Cat. No.
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HZ11GQ7

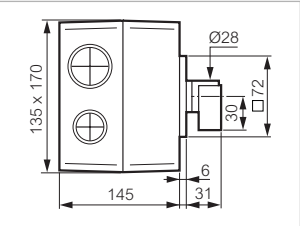


Designation		Cat. No.
Grey/black medium handle		
□ 72 aluminium plate and frame		
P= 18.5 kW in 400 V		
5 contacts		PR40 9151 C8 E Q72MN
		HZ11GQ7

PR 40 - 50 A (AC21)	Enclosure	Cat. No.
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HZ11GCQ



Designation		Cat. No.
Grey/black medium handle		
□ 72 aluminium plate and frame		
P= 18.5 kW in 400 V		
5 contacts		PR40 9151 C8 BCF Q72MN
		HZ11GCQ

Cam switches



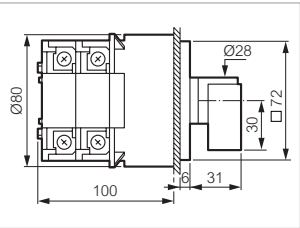
Characteristics (p. 213)

3 PHASE MOTOR SWITCH, FORWARD/REVERSE, 1 SPEED (CONTINUED)

PR 63 - 63 A (AC21)	2-screw panel mount - interval: 50 mm	Cat. No.
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IZ11GQ7

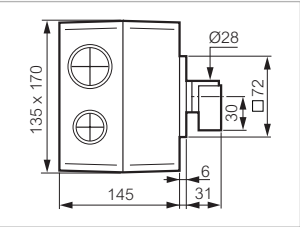


Designation			
Grey/black medium handle		PR63 9151 C8 E Q72MN	IZ11GQ7
□ 72 aluminium plate and frame			
P= 22 kW in 400 V			
5 contacts			

PR 63 - 63 A (AC21)	Enclosure	Cat. No.
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IZ11GXQ



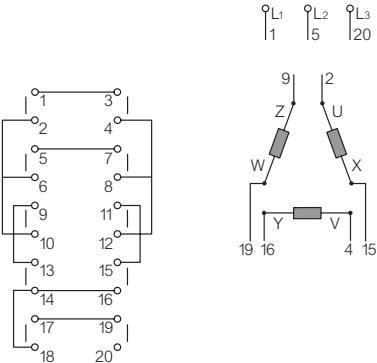
Designation			
Grey/black medium handle		PR63 9151 C8 BCF Q72MN	IZ11GXQ
□ 72 aluminium plate and frame			
P= 22 kW in 400 V			
5 contacts			

Cam switches

 Characteristics (p. 213)

► 1 SPEED STARTER, FORWARD/REVERSE - 3 PHASE MOTOR

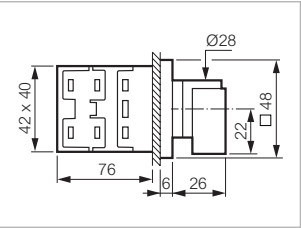
No. of contacts	REV			FWD	
	Δ	Y	0	Δ	Y
1 - 2				X	X
3 - 4	X	X			
5 - 6	X	X			
7 - 8				X	X
9 - 10	X				X
11 - 12	X				X
13 - 14		X	X		
15 - 16		X	X		
17 - 18	X				X
19 - 20	X	X		X	X



PR 12 - 16 A (AC21) 2-screw panel mount – interval: 30 mm Cat. No.



NZ13GQ1



Designation

Grey/black small handle
□ 48 aluminium plate and frame
P= 4 kW in 400 V

10 contacts



PR12 9153 C8 E Q48PN

NZ13GQ1

Cam switches



Characteristics (p. 213)

► 1 SPEED STARTER, FORWARD/REVERSE - 3 PHASE MOTOR (CONTINUED)

PR 12 - 16 A (AC21)	Enclosure	Cat. No.
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NZ13GXQ

Black small handle
□ 64 aluminium plate
P= 4 kW in 400 V

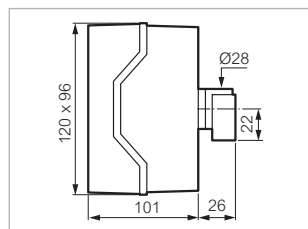
10 contacts



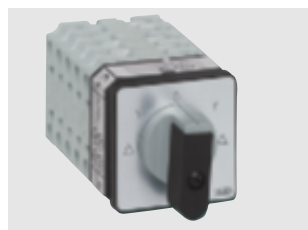
Designation

PR12 9153 C8 BCQ3

NZ13GXQ



PR 17 - 20 A (AC21)	2-crew panel mount – interval: 30 mm	Cat. No.
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SZ13GQ1

Grey/black small handle
□ 48 aluminium plate and frame
P= 7.5 kW in 400 V

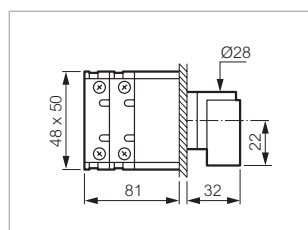
10 contacts



Designation

PR17 9153 C8 E Q48PN

SZ13GQ1



Cam switches

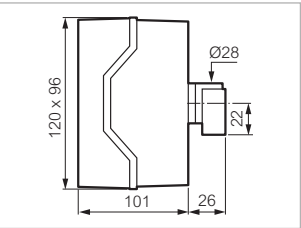
 Characteristics (p. 213)

► 1 SPEED STARTER, FORWARD/REVERSE - 3 PHASE MOTOR (CONTINUED)

PR 17 - 20 A (AC21)	Enclosure	Cat. No.
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SZ13GXQ



Black small handle
□ 64 aluminium plate
P= 7.5 kW in 400 V
10 contacts

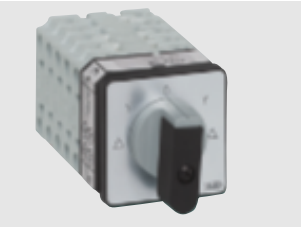


Designation

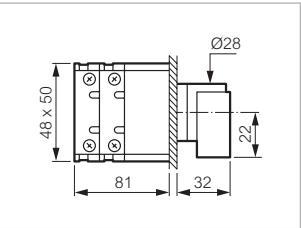
PR17 9153 C8 BCQ3

SZ13GXQ

PR 21 - 25 A (AC21)	2-screw panel mount – interval: 30 mm	Cat. No.
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TZ13GQ1



Grey/black small handle
□ 48 aluminium plate and frame
P= 7.5 kW in 400 V
10 contacts



Designation

PR21 9153 C8 E Q48PN

TZ13GQ1

Cam switches



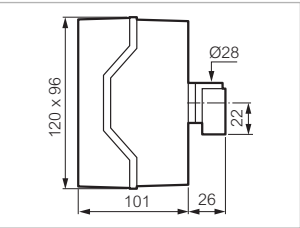
Characteristics (p. 213)

► 1 SPEED STARTER, FORWARD/REVERSE - 3 PHASE MOTOR (CONTINUED)

PR 21 - 25 A (AC21)	Enclosure		Cat. No.
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TZ13GXQ



Designation

Black small handle
□ 64 aluminium plate
P= 7.5 kW in 400 V

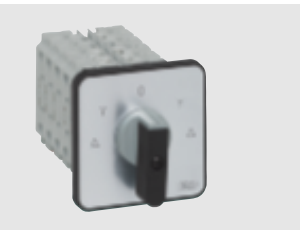
10 contacts



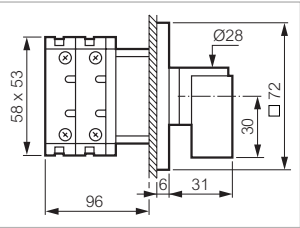
PR21 9153 C8 BCQ3

TZ13GXQ

PR 26 - 32 A (AC21)	2-screw panel mount – interval: 30 mm		Cat. No.
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ZZ13GQ7



Designation

Grey/black medium handle
□ 72 aluminium plate and frame
P= 11 kW in 400 V

10 contacts



PR26 9153 C8 E Q72MN

ZZ13GQ7

Cam switches



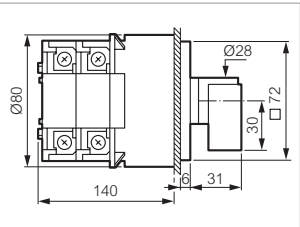
Characteristics (p. 213)

▶ 1 SPEED STARTER, FORWARD/REVERSE - 3 PHASE MOTOR (CONTINUED)

PR 40 - 50 A (AC21)	2-screw panel mount - interval: 50 mm	Cat. No.
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HZ13GQ7

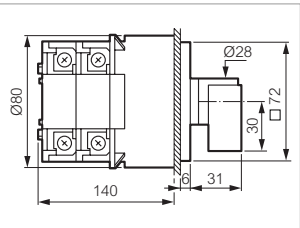


Designation		
Grey/black medium handle		
□ 72 aluminium plate and frame		
P= 18,5 kW in 400 V		
10 contacts		PR40 9153 C8 E Q72MN
		HZ13GQ7

PR 63 - 63 A (AC21)	2-screw panel mount - interval: 50 mm	Cat. No.
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IZ13GQ7



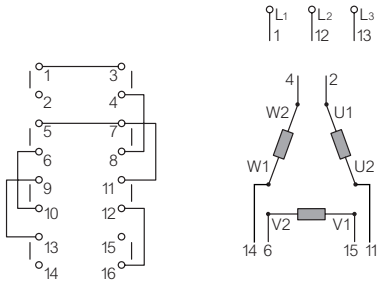
Designation		
Grey/black medium handle		
□ 72 aluminium plate and frame		
P= 22 kW in 400 V		
10 contacts		PR63 9153 C8 E Q72MN
		IZ13GQ7

Cam switches

 Characteristics (p. 213)

► 1 SPEED STARTER, 1 WAY - 3 PHASE MOTOR

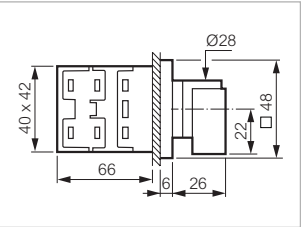
No. of contacts	0	Y	Δ
1 - 2		X	X
3 - 4		X	
5 - 6	X	X	
7 - 8	X	X	
9 - 10			X
11 - 12			X
13 - 14	X	X	X
15 - 16	X	X	X



PR 12 - 16 A (AC21) 2- screw panel mount – interval: 30 mm Cat. No.



NZ51BQ1



Designation

Grey/black small handle
□ 48 aluminium plate and frame
P= 4 kW in 400 V

8 contacts



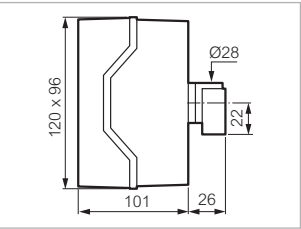
PR12 9551 B4 E Q48PN

NZ51BQ1

PR 12 - 16 A (AC21) Enclosure Cat. No.



NZ51BXQ



Designation

Black small handle
□ 64 aluminium plate
P= 4 kW in 400 V

8 contacts



PR12 9551 B4 BCQ3

NZ51BXQ

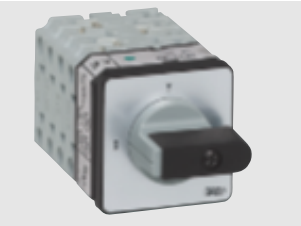
Cam switches



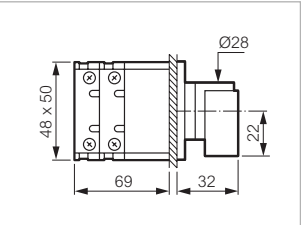
Characteristics (p. 213)

► 1 SPEED STARTER, 1 WAY - 3 PHASE MOTOR (CONTINUED)

PR 17 - 20 A (AC21)	2-screw panel mount – interval: 30 mm	Cat. No.
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SZ51BQ1

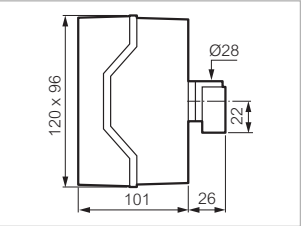


Designation			
Grey/black small handle			
□ 48 aluminium plate and frame			
P= 7.5 kW in 400 V			
8 contacts		PR17 9551 B4 E Q48PN	SZ51BQ1

PR 17 - 20 A (AC21)	Enclosure	Cat. No.
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SZ51BXQ



Designation			
Black small handle			
□ 64 aluminium plate			
P= 7.5 kW in 400 V			
8 contacts		PR17 9551 B4 BCQ3	SZ51BXQ

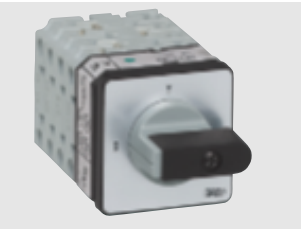
Cam switches



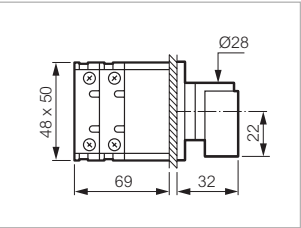
Characteristics (p. 213)

► 1 SPEED STARTER, 1 WAY - 3 PHASE MOTOR (CONTINUED)

PR 21 - 25 A (AC21)	2-screw panel mount – interval: 30 mm	Cat. No.
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TZ51BQ1

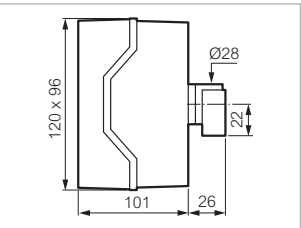


Designation			
Grey/black small handle			
□ 48 aluminium plate and frame			
P= 7.5 kW in 400 V			
8 contacts		PR21 9551 B4 E Q48PN	TZ51BQ1

PR 21 - 25 A (AC21)	Enclosure	Cat. No.
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TZ51BXQ



Designation			
Black small handle			
□ 64 aluminium plate			
P= 7.5 kW in 400 V			
8 contacts		PR21 9551 B4 BCQ3	TZ51BXQ

Cam switches

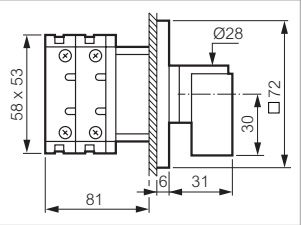
 Characteristics (p. 213)

► 1 SPEED STARTER, 1 WAY - 3 PHASE MOTOR (CONTINUED)

PR 26 - 32 A (AC21)	2-screw panel mount – interval: 30 mm	Cat. No.
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ZZ51BQ7

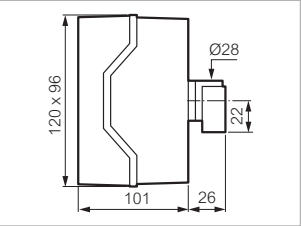


Designation			
Grey/black medium handle			
□ 72 aluminium plate and frame			
P= 11 kW in 400 V			
8 contacts		PR26 9551 B4 E Q72MN	ZZ51BQ7

PR 26 - 32 A (AC21)	Enclosure	Cat. No.
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ZZ51BXQ



Designation			
Black small handle			
□ 64 aluminium plate			
P= 11 kW in 400 V			
8 contacts		PR26 9551 B4 BCQ3	ZZ51BXQ

Cam switches



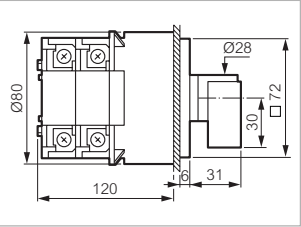
Characteristics (p. 213)

► 1 SPEED STARTER, 1 WAY - 3 PHASE MOTOR (CONTINUED)

PR 40 - 50 A (AC21)	2-screw panel mount - interval: 50 mm	Cat. No.
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HZ51BQ7

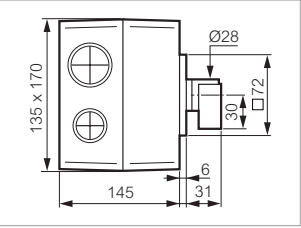


Designation		
Grey/black medium handle		
□ 72 aluminium plate and frame		
P= 18.5 kW in 400 V		
8 contacts		PR40 9551 B4 E Q72MN
		HZ51BQ7

PR 40 - 50 A (AC21)	Enclosure	Cat. No.
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HZ51BDQ



Designation		
Grey/black medium handle		
□ 72 aluminium plate and frame		
P= 18.5 kW in 400 V		
8 contacts		PR40 9551 B4 BCF Q72MN
		HZ51BDQ

Cam switches

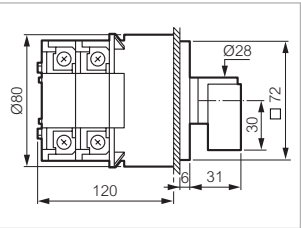
 Characteristics (p. 213)

► 1 SPEED STARTER, 1 WAY - 3 PHASE MOTOR (CONTINUED)

PR 63 - 63 A (AC21)	2-screw panel mount - interval: 50 mm	Cat. No.
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IZ51BQ7

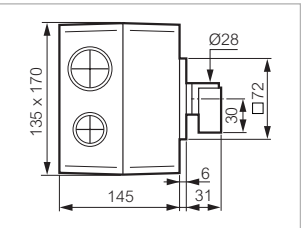


Designation			
Grey/black medium handle		PR63 9551 B4 E Q72MN	IZ51BQ7
□ 72 aluminium plate and frame			
P= 22 kW in 400 V			
8 contacts			

PR 63 - 63 A (AC21)	Enclosure	Cat. No.
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HZ51BDQ



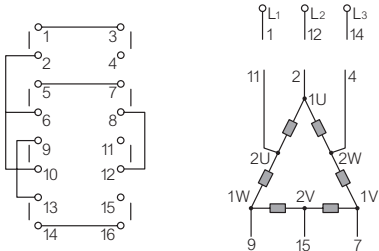
Designation			
Grey/black medium handle		PR63 9551 B4 BCF Q72MN	IZ51BDQ
□ 72 aluminium plate and frame			
P= 22 kW in 400 V			
8 contacts			

Cam switches

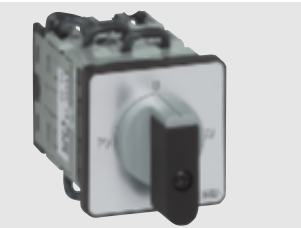
 Characteristics (p. 213)

► 2 SPEEDS, 1 WAY – 3 PHASE DALHANDER MOTOR

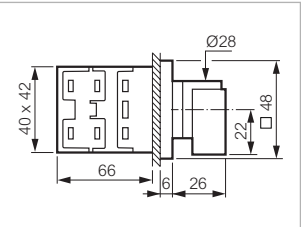
No. of contacts	LS	0	HS	No. of contacts	0	LS	HS
1 - 2	X			1 - 2		X	
3 - 4			X	3 - 4			X
5 - 6			X	5 - 6			X
7 - 8	X			7 - 8		X	
9 - 10			X	9 - 10			X
11 - 12			X	11 - 12			X
13 - 14	X			13 - 14		X	
15 - 16			X	15 - 16			X



PR 12 - 16 A (AC21) 2-screw panel mount – interval: 30 mm Cat. No.



NZ52CQ1



Designation

Grey/black small handle
□ 48 aluminium plate and frame
P= 4 kW in 400 V

8 contacts



PR12 9552 B4 E Q48PN

NZ52BQ1

8 contacts



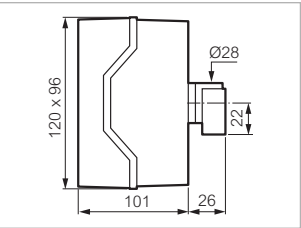
PR12 9552 C4 E Q48PN

NZ52CQ1

PR 12 - 16 A (AC21) Enclosure Cat. No.



NZ52CXQ



Designation

Black small handle
□ 64 aluminium plate
P= 4 kW in 400 V

8 contacts



PR12 9552 B4 BCQ3

NZ52BXQ

8 contacts



PR12 9552 C4 BCQ3

NZ52CXQ

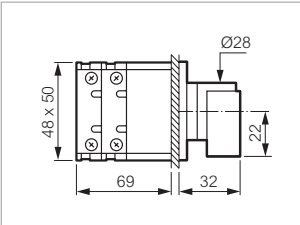
Cam switches



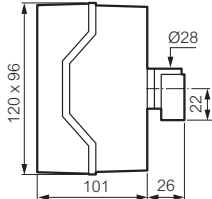
Characteristics (p. 213)

2 SPEEDS, 1 WAY – 3 PHASE DALHANDER MOTOR (CONTINUED)

PR 17 - 20 A (AC21)	2-screw panel mount – interval: 30 mm	Cat. No.		
 SZ52BQ1	Designation			
	Grey/black small handle □ 48 aluminium plate and frame P= 7.5 kW in 400 V			
	8 contacts		PR17 9552 B4 E Q48PN	SZ52BQ1
	8 contacts		PR17 9552 C4 E Q48PN	SZ52CQ1



PR 17 - 20 A (AC21)	Enclosure	Cat. No.		
 SZ52BXQ	Designation			
	Black small handle □ 64 aluminium plate P= 7.5 kW in 400 V			
	8 contacts		PR17 9552 B4 BCQ3	SZ52BXQ
	8 contacts		PR17 9552 C4 BCQ3	SZ52CXQ



Cam switches

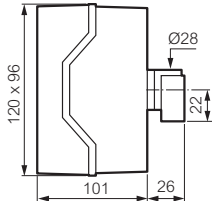


Characteristics (p. 213)

2 SPEEDS, 1 WAY – 3 PHASE DALHANDER MOTOR (CONTINUED)

PR 21 - 25 A (AC21)	2-screw panel mount – interval: 30 mm	Cat. No.		
 TZ52BQ1	Designation			
	Grey/black small handle □ 48 aluminium plate and frame P= 7.5 kW in 400 V			
	8 contacts		PR21 9552 B4 E Q48PN	TZ52BQ1
	8 contacts		PR21 9552 C4 E Q48PN	TZ52CQ1

PR 21 - 25 A (AC21)	Enclosure	Cat. No.		
 TZ52BXQ	Designation			
	Black small handle □ 64 aluminium plate P= 7.5 kW in 400 V			
	8 contacts		PR21 9552 B4 BCQ3	TZ52BXQ
	8 contacts		PR21 9552 C4 BCQ3	TZ52CXQ

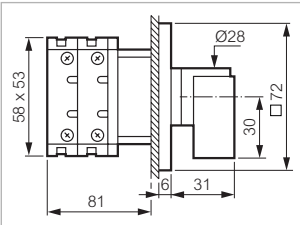


Cam switches

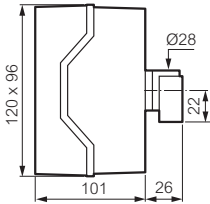


Characteristics (p. 213)

2 SPEEDS, 1 WAY – 3 PHASE DALHANDER MOTOR (CONTINUED)

PR 26 - 32 A (AC21)	2-screw panel mount – interval: 30 mm		Cat. No.	
 ZZ52BQ7 	Designation			
	Grey/black medium handle □ 72 aluminium plate and frame P= 11 kW in 400 V			
	8 contacts		PR26 9552 B4 E Q72MN	ZZ52BQ7
	8 contacts		PR26 9552 C4 E Q72MN	ZZ52CQ7

PR 26 - 32 A (AC21)	Enclosure	Cat. No.		
 ZZ52BXQ	Designation			
	Black small handle □ 64 aluminium plate P= 11 kW in 400 V			
	8 contacts		PR26 9552 B4 BCQ3	ZZ52BXQ
	8 contacts		PR26 9552 C4 BCQ3	ZZ52CXQ



Cam switches



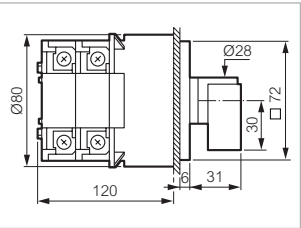
Characteristics (p. 213)

► 2 SPEEDS, 1 WAY – 3 PHASE DALHANDER MOTOR (CONTINUED)

PR 40 - 50 A (AC21)	2-screw panel mount - interval: 50 mm	Cat. No.
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HZ52BQ7

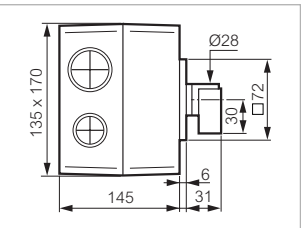


Designation			
Grey/black medium handle □ 72 aluminium plate and frame P= 18.5 kW in 400 V			
8 contacts		PR40 9552 B4 E Q72MN	HZ52BQ7
8 contacts		PR40 9552 C4 E Q72MN	HZ52CQ7

PR 40 - 50 A (AC21)	Enclosure	Cat. No.
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HZ52BDQ

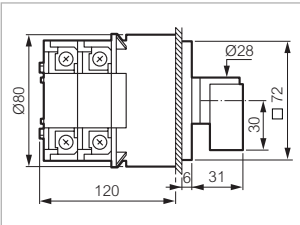


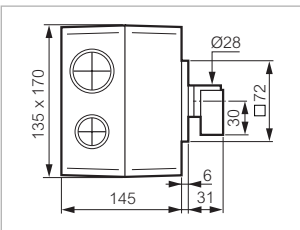
Designation			
Grey/black medium handle □ 72 aluminium plate and frame P= 18.5 kW in 400 V			
8 contacts		PR40 9552 B4 BCF Q72MN	HZ52BDQ
8 contacts		PR40 9552 C4 BCF Q72MN	HZ52CDQ

Cam switches

 Characteristics (p. 213)

► 2 SPEEDS, 1 WAY – 3 PHASE DALHANDER MOTOR (CONTINUED)

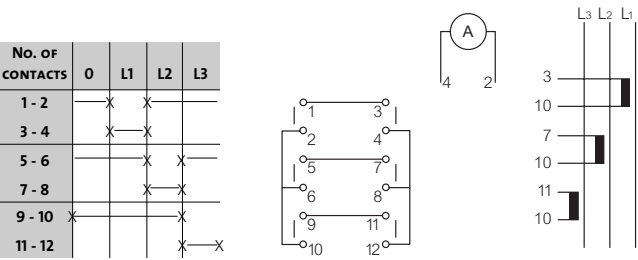
PR 63 - 63 A (AC21)	2-screw panel mount - interval: 50 mm		Cat. No.	
 IZ52BQ7 	Designation			
	Grey/black medium handle □ 72 aluminium plate and frame P= 22 kW in 400 V			
	8 contacts		PR63 9552 B4 E Q72MN	IZ52BQ7
	8 contacts		PR63 9552 C4 E Q72MN	IZ52CQ7

PR 63 - 63 A (AC21)	Enclosure	Cat. No.		
 IZ52BDQ 	Designation			
	Grey/black medium handle □ 72 aluminium plate and frame P= 22 kW in 400 V			
	8 contacts		PR63 9552 B4 BCF Q72MN	IZ52BDQ
	8 contacts		PR63 9552 C4 BCF Q72MN	IZ52CDQ

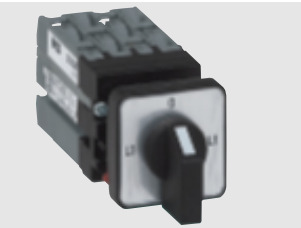
Cam switches

 Characteristics (p. 213)

► AMMETER SWITCH, 3 CTS WITH COMMON POINT



MINI CAM SWITCH - 10 A (AC21) ø 16 or 22 single hole front mounting Cat. No.

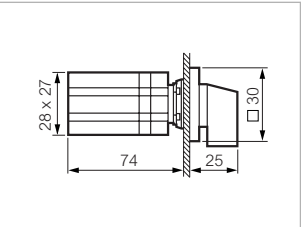


- ☐ 30 aluminium plate and frame
- 1 network, 3 wires, 1 ammeter

6 contacts



223529



Cam switches



Characteristics (p. 213)

► AMMETER SWITCH, 3 CTS WITH COMMON POINT (CONTINUED)

PR 12 - 16 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



NY11AQ1

Designation

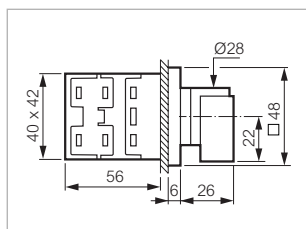
Grey/black small handle
□ 48 aluminium plate and frame
1 network, 3 wires, 1 ammeter

6 contacts



PR12 8151 A4 E Q48PN

NY11AQ1



PR 12 - 16 A (AC21)

Ø 22 single hole front mounting

Cat. No.



NY11AX80

Designation

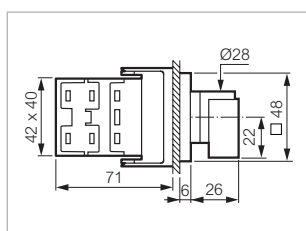
Grey/black small handle
□ 48 aluminium plate and frame
1 network, 3 wires, 1 ammeter

6 contacts



PR12 8151 A4 E N48MD50

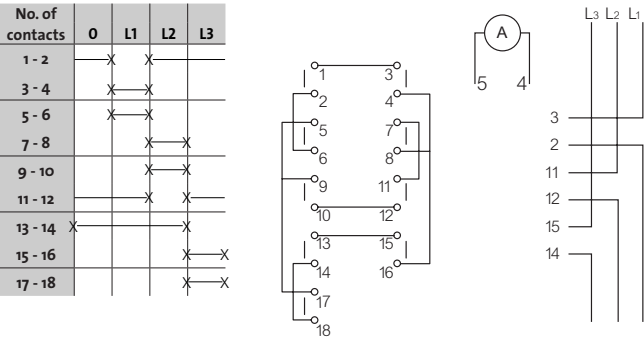
NY11AX80



Cam switches

 Characteristics (p. 213)

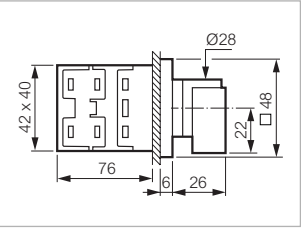
► AMMETER SWITCH, WITHOUT CT



PR 12 - 16 A (AC21) 2-screw panel mount – interval: 30 mm Cat. No.



NY14AQ1



Designation

Grey/black small handle
□ 48 aluminium plate and frame
1 network, 3 wires, 1 ammeter

9 contacts



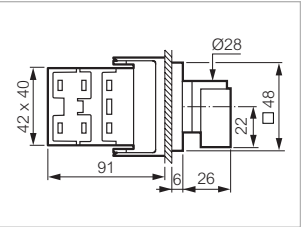
PR12 8164 A4 E Q48PN

NY14AQ1

PR 12 - 16 A (AC21) Ø 22 single hole front mounting Cat. No.



NY14AX80



Designation

Grey/black small handle
□ 48 aluminium plate and frame
1 network, 3 wires, 1 ammeter

9 contacts



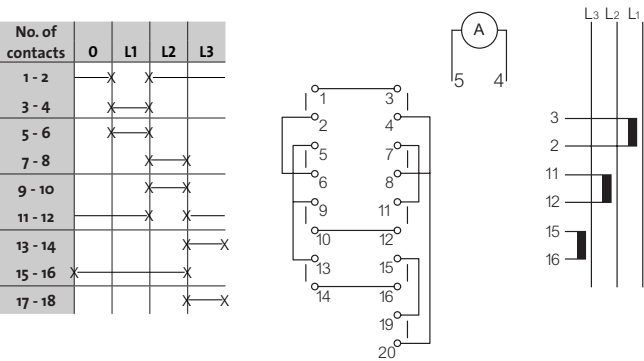
PR12 8164 A4 E N48MD50

NY14AX80

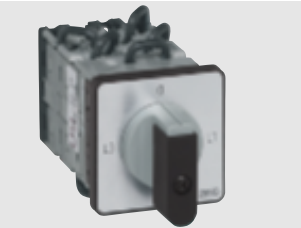
Cam switches

 Characteristics (p. 213)

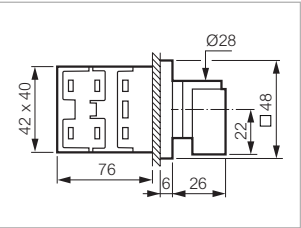
► AMMETER SWITCH WITHOUT COMMON POINT



PR 12 - 16 A (AC21) 2-screw panel mount – interval: 30 mm Cat. No.



NY17AQ1



Designation

Grey/black small handle
□ 48 aluminium plate and frame
1 network, 3 wires, 1 ammeter

9 contacts



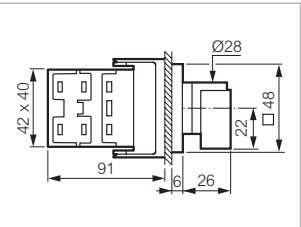
PR12 8157 A4 E Q48PN

NY17AQ1

PR 12 - 16 A (AC21) Ø 22 single hole front mounting Cat. No.



NY17AX80



Designation

Grey/black small handle
□ 48 aluminium plate and frame
1 network, 3 wires, 1 ammeter

9 contacts



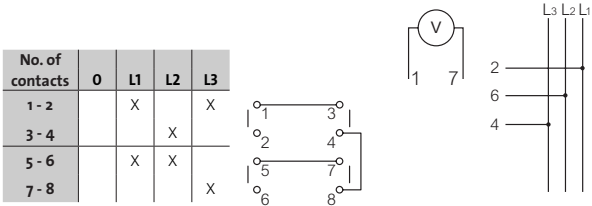
PR12 8157 A4 E N48MD50

NY17AX80

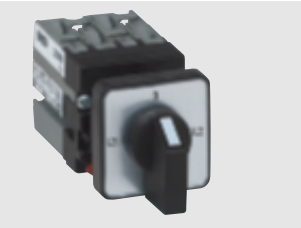
Cam switches

 Characteristics (p. 213)

► VOLTMETER SWITCH, WITHOUT NEUTRAL



MINI CAM SWITCH - 10 A (AC21) **Ø 16 or 22 single hole front mounting** **Cat. No.**

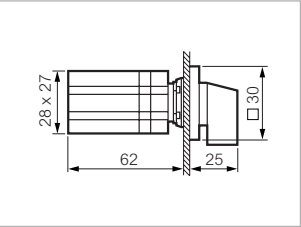


- ☐ 30 aluminium plate and frame
- 1 network, 3-phase without neutral
- 1 voltmeter

4 contacts



223527



Cam switches



Characteristics (p. 213)

► VOLTMETER SWITCH, WITHOUT NEUTRAL (CONTINUED)

PR 12 - 16 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



NY31AQ1

Designation

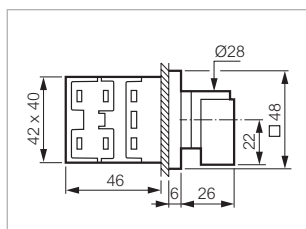
Grey/black small handle
 □ 48 aluminium plate and frame
 1 network, 3-phase without neutral
 1 voltmeter

4 contacts



PR12 8351 A4 E Q48PN

NY31AQ1



PR 12 - 16 A (AC21)

Ø 22 single hole front mounting

Cat. No.



NY31AX80

Designation

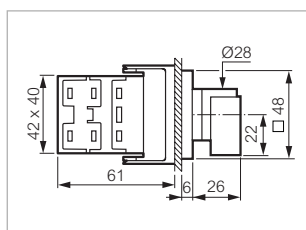
Grey/black small handle
 □ 48 aluminium plate and frame
 1 network, 3-phase without neutral
 1 voltmeter

4 contacts



PR12 8351 A4 E N48MD50

NY31AX80



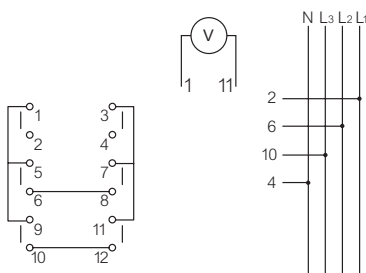
Cam switches



Characteristics (p. 213)

► VOLTMETER SWITCH, WITH NEUTRAL

No. of contacts	L3 L1	L2 L2	L1 L3	0 0	L1 N	L2 N	L3 N
1 - 2	X		X		X		
3 - 4					X	X	X
5 - 6		X				X	
7 - 8			X				
9 - 10							X
11 - 12	X	X					



MINI CAM SWITCH - 10 A (AC21)

Ø 16 or 22 single hole front mounting

Cat. No.



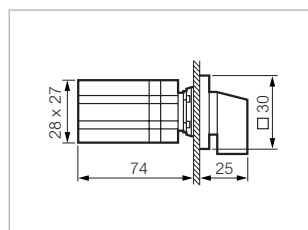
223528

□ 30 aluminium plate and frame
1 network, 3-phase with neutral,
1 voltmeter

6 contacts



223528



PR 12 - 16 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



NY37GQ1

Designation

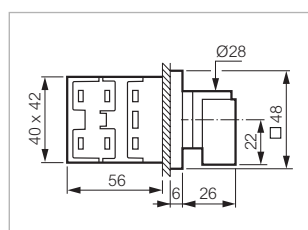
Grey/black small handle
□ 48 aluminium plate and frame
1 network, 3-phase with neutral,
1 voltmeter

6 contacts



PR12 8357 C8 E Q48PN

NY37GQ1



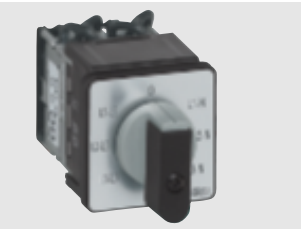
Cam switches



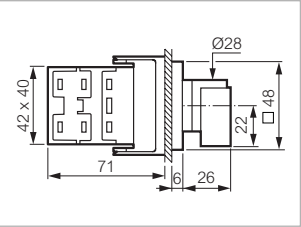
Characteristics (p. 213)

► VOLTMETER SWITCH, WITH NEUTRAL (CONTINUED)

PR 12 - 16 A (AC21)	Ø22 single hole front mounting	Cat. No.
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NY37GX80

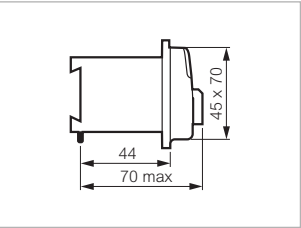


Designation			
Grey/black small handle			
□ 48 aluminium plate and frame			
1 network, 3-phase with neutral,			
1 voltmeter			
6 contacts		PR12 8357 C8 E N48MD50	NY37GX80

PR 12 - 16 A (AC21)	Modular in panel DIN rail mounting	Cat. No.
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NDF03

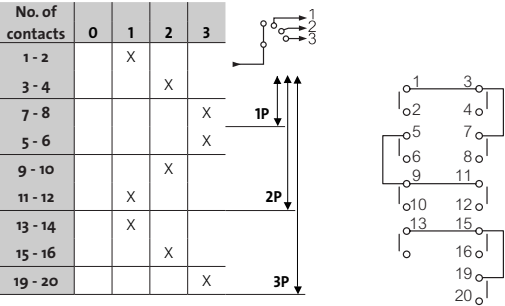


Designation			
Small grey handle			
1 network, 3-phase with neutral,			
1 voltmeter			
6 contacts		PR12 8357 C8 DF	NDF03

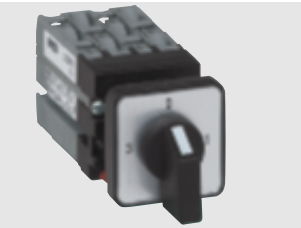
Cam switches

 Characteristics (p. 213)

► 3-WAY SWITCHES WITH “OFF” POSITION



MINI CAM SWITCH - 10 A (AC21) ø 16 or 22 single hole front mounting Cat. No.



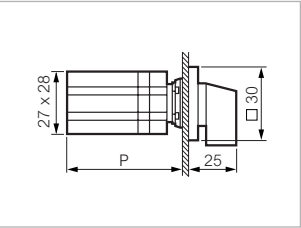
223522

□ 30 aluminium plate and frame

- 1P -3 contacts
- 2P -6 contacts
- 3P -9 contacts



223521
223522
223523



Dimensions in mm
*P: 62 (3 CONTACTS)
74 (6 CONTACTS)
95 (9 CONTACTS)

*P = Depth

Cam switches



Characteristics (p. 213)

► 3-WAY CAM SWITCHES WITH “OFF” POSITION (CONTINUED)

PR 12 - 16 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



ND03AQ1

Grey/black small handle
□ 48 aluminium plate and frame

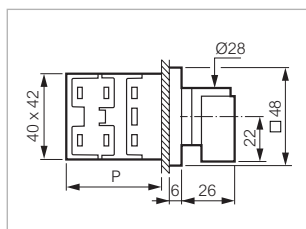
Designation

1P - 3 contacts
2P - 6 contacts
3P - 9 contacts



PR12 2301 A4 E Q48PN
PR12 2302 A4 E Q48PN
PR12 2303 A4 E Q48PN

ND01AQ1
ND02AQ1
ND03AQ1



Dimensions in mm

*P: 46 (3 CONTACTS)
56 (6 CONTACTS)
76 (9 CONTACTS)

PR 12 - 16 A (AC21)

Ø 22 single hole front mounting

Cat. No.



ND02AX80

Grey/black small handle
□ 48 aluminium plate and frame

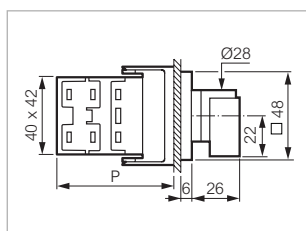
Designation

1P - 3 contacts
2P - 6 contacts
3P - 9 contacts



PR12 2301 A4 E N48MD50
PR12 2302 A4 E N48MD50
PR12 2303 A4 E N48MD50

ND01AX80
ND02AX80
ND03AX80



Dimensions in mm

*P: 61 (3 CONTACTS)
71 (6 CONTACTS)
91 (9 CONTACTS)

*P = Depth

Catalogue No. in bold: normally in stock at distribution outlets

Cam switches



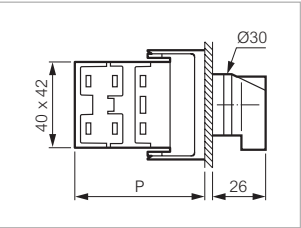
Characteristics (p. 213)

3-WAY CAM SWITCHES WITH “OFF” POSITION (CONTINUED)

PR 12 - 16 A (AC21)	Ø 22 single hole front mounting	Cat. No.
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ND01AC113



Dimensions in mm

*P: 61 (3 CONTACTS)
71 (6 CONTACTS)
91 (9 CONTACTS)

With selector switch style handle
Matt chrome plastic bezel

1P -3 contacts
2P - 6 contacts
3P - 9 contacts



Designation

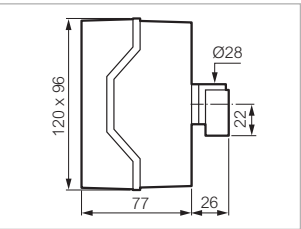
PR12 2301 A4 E C21RA03
PR12 2302 A4 E C21RA03
PR12 2303 A4 E C21RA03

ND01AC113
ND02AC113
ND03AC113

PR 12 - 16 A (AC21)	Enclosure	Cat. No.
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ND02AXQ



Dimensions in mm

*P: 77 (3 TO 6 CONTACTS)
101 (9 CONTACTS)

Black small handle
□ 64 aluminium plate

1P -3 contacts
2P - 6 contacts
3P - 9 contacts



Designation

PR12 2301 A4 BCQ3
PR12 2302 A4 BCQ3
PR12 2303 A4 BCQ3

ND01AXQ
ND02AXQ
ND03AXQ

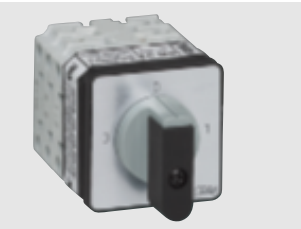
*P = Depth

Cam switches

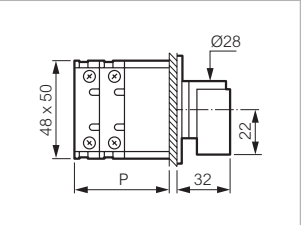
 Characteristics (p. 213)

► 3-WAY CAM SWITCHES WITH “OFF” POSITION (CONTINUED)

PR 17 - 20 A (AC21) 2-screw panel mount – interval: 30 mm Cat. No.



SD03AQ1



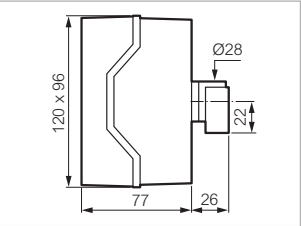
Dimensions in mm
*P: 45 (3 CONTACTS)
57 (6 CONTACTS)
81 (9 CONTACTS)

Designation			
Grey/black small handle			
□ 48 aluminium plate and frame			
1P -3 contacts		PR17 2301 A4 E Q48PN	SD01AQ1
2P - 6 contacts		PR17 2302 A4 E Q48PN	SD02AQ1
3P - 9 contacts		PR17 2303 A4 E Q48PN	SD03AQ1

PR 17 - 20 A (AC21) Enclosure Cat. No.



SD02AXQ



Dimensions in mm
*P: 77 (3 TO 6 CONTACTS)
101 (9 CONTACTS)

Designation			
Black small handle			
□ 64 aluminium plate			
1P -3 contacts		PR17 2301 A4 BCQ3	SD01AXQ
2P - 6 contacts		PR17 2302 A4 BCQ3	SD02AXQ
3P - 9 contacts		PR17 2303 A4 BCQ3	SD03AXQ

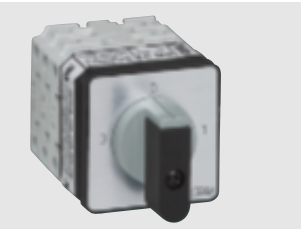
*P = Depth

Cam switches

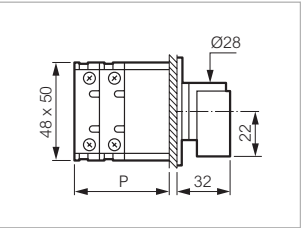
 Characteristics (p. 213)

► 3-WAY CAM SWITCHES WITH “OFF” POSITION (CONTINUED)

PR 21 - 25 A (AC21) 2-screw panel mount – interval: 30 mm Cat. No.



TD02AQ1



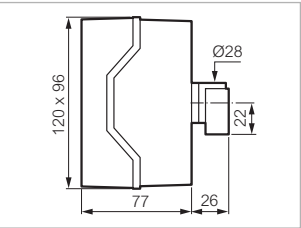
Dimensions in mm
*P: 45 (3 CONTACTS)
57 (6 CONTACTS)
81 (9 CONTACTS)

Designation			
Grey/black small handle			
□ 48 aluminium plate and frame			
1P - 3 contacts		PR21 2301 A4 E Q48PN	TD01AQ1
2P - 6 contacts		PR21 2302 A4 E Q48PN	TD02AQ1
3P - 9 contacts		PR21 2303 A4 E Q48PN	TD03AQ1

PR 21 - 25 A (AC21) Enclosure Cat. No.



TD01AXQ



Dimensions in mm
*P: 77 (3 TO 6 CONTACTS)
101 (9 CONTACTS)

Designation			
Black small handle			
□ 64 aluminium plate			
1P - 3 contacts		PR21 2301 A4 BCQ3	TD01AXQ
2P - 6 contacts		PR21 2302 A4 BCQ3	TD02AXQ
3P - 9 contacts		PR21 2303 A4 BCQ3	TD03AXQ

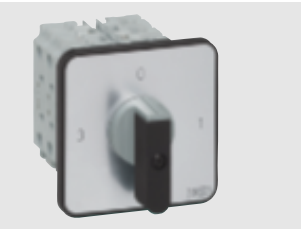
*P = Depth

Cam switches

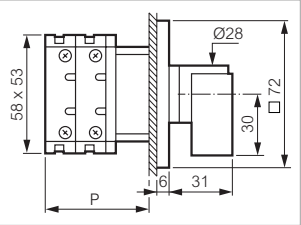
 Characteristics (p. 213)

► 3-WAY CAM SWITCHES WITH “OFF” POSITION (CONTINUED)

PR 26 - 32 A (AC21)	2-screw panel mount – interval: 30 mm	Cat. No.
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ZD02AQ7



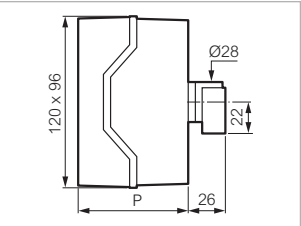
Dimensions in mm
*P: 51 (3 CONTACTS)
66 (6 CONTACTS)
96 (9 CONTACTS)

Designation			
Grey/black medium handle □ 72 aluminium plate and frame			
1P -3 contacts		PR26 2301 A4 E Q72MN	ZD01AQ7
2P - 6 contacts		PR26 2302 A4 E Q72MN	ZD02AQ7
3P - 9 contacts		PR26 2303 A4 E Q72MN	ZD03AQ7

PR 26 - 32 A (AC21)	Enclosure	Cat. No.
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ZD01AXQ



Dimensions in mm
*P: 77 (3 CONTACTS)
101 (6 CONTACTS)

Designation			
Black small handle □ 64 aluminium plate			
1P -3 contacts		PR26 2301 A4 BCQ3	ZD01AXQ
2P - 6 contacts		PR26 2302 A4 BCQ3	ZD02AXQ

*P = Depth

Cam switches

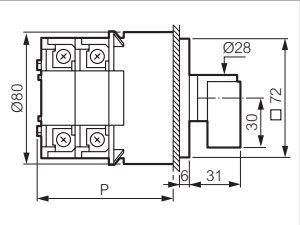
 Characteristics (p. 213)

► 3-WAY CAM SWITCHES WITH “OFF” POSITION (CONTINUED)

PR 40 - 50 A (AC21) 2-screw panel mount - interval: 50 mm Cat. No.



HD02AQ7



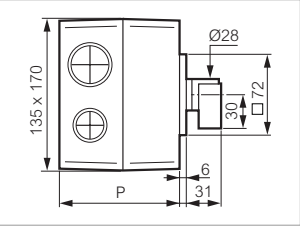
Dimensions in mm
*P: 80 (3 CONTACTS)
100 (6 CONTACTS)
140 (9 CONTACTS)

Designation			
Grey/black medium handle			
□ 72 aluminium plate and frame			
1P -3 contacts		PR40 2301 A4 E Q72MN	HD01AQ7
2P - 6 contacts		PR40 2302 A4 E Q72MN	HD02AQ7
3P - 9 contacts		PR40 2303 A4 E Q72MN	HD03AQ7

PR 40 - 50 A (AC21) Enclosure Cat. No.



HD01ABQ



Dimensions in mm
*P: 107 (3 CONTACTS)
145 (6 CONTACTS)

Designation			
Grey/black medium handle			
□ 72 aluminium plate and frame			
1P -3 contacts		PR40 2301 A4 BCF Q72MN	HD01ABQ
2P - 6 contacts		PR40 2302 A4 BCF Q72MN	HD02ACQ

*P = Depth

Cam switches

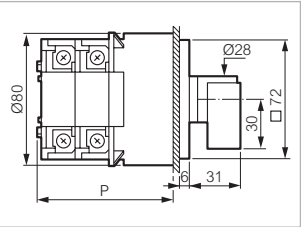
 Characteristics (p. 213)

► 3-WAY CAM SWITCHES WITH “OFF” POSITION (CONTINUED)

PR 63 - 63 A (AC21)	2-screw panel mount - interval: 50 mm	Cat. No.
---------------------	---------------------------------------	----------



ID01AQ7



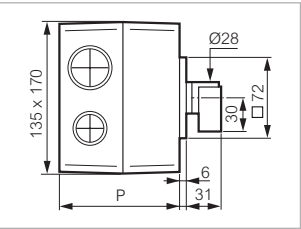
Dimensions in mm
*P: 80 (3 CONTACTS)
100 (6 CONTACTS)
140 (9 CONTACTS)

Designation			
Grey/black medium handle			
□ 72 aluminium plate and frame			
1P -3 contacts		PR63 2301 A4 E Q72MN	ID01AQ7
2P - 6 contacts		PR63 2302 A4 E Q72MN	ID02AQ7
3P - 9 contacts		PR63 2303 A4 E Q72MN	ID03AQ7

PR 63 - 63 A (AC21)	Enclosure	Cat. No.
---------------------	-----------	----------



ID01ABQ



Dimensions in mm
*P: 107 (3 CONTACTS)
145 (6 CONTACTS)

Designation			
Grey/black medium handle			
□ 72 aluminium plate and frame			
1P -3 contacts		PR63 2301 A4 BCF Q72MN	ID01ABQ
2P - 6 contacts		PR63 2302 A4 BCF Q72MN	ID02ACQ

*P = Depth

Cam switches



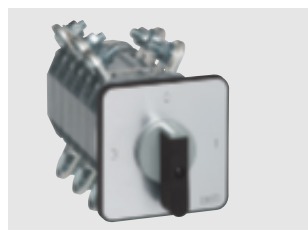
Characteristics (p. 213)

► 3-WAY CAM SWITCHES WITH “OFF” POSITION (CONTINUED)

PR 125 - 160 A (AC21)

2-screw panel mount - interval: 50 mm

Cat. No.



LD02AQ9

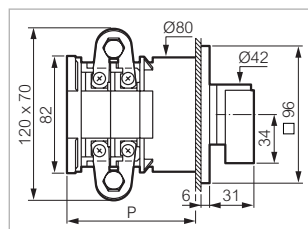
Designation
Grey/black large handle
□ 96 aluminium plate and frame

1P - 3 contacts
2P - 6 contacts
3P - 9 contacts



PR125 2301 A4 E Q96GN
PR125 2302 A4 E Q96GN
PR125 2303 A4 E Q96GN

LD01AQ9
LD02AQ9
LD03AQ9

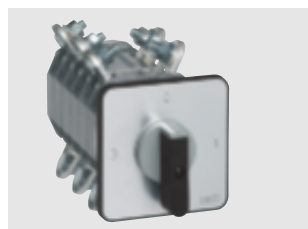


Dimensions in mm
*P: 120 (3 CONTACTS)
160 (6 CONTACTS)
240 (9 CONTACTS)

PR 160 - 200 A (AC21)

2-screw panel mount - interval: 50 mm

Cat. No.



MD01AQ9

Designation

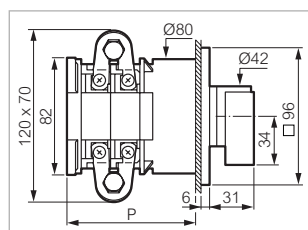
Grey/black large handle
□ 96 aluminium plate and frame

1P - 3 contacts
2P - 6 contacts
3P - 9 contacts



PR160 2301 A4 E Q96GN
PR160 2302 A4 E Q96GN
PR160 2303 A4 E Q96GN

MD01AQ9
MD02AQ9
MD03AQ9



Dimensions in mm
*P: 120 (3 CONTACTS)
160 (6 CONTACTS)
240 (9 CONTACTS)

*P = Depth

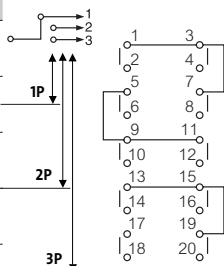
Cam switches



Characteristics (p. 213)

► 3-WAY CAM SWITCHES WITHOUT “OFF” POSITION

No. of contacts	1	2	3
1 - 2	X		
3 - 4		X	
7 - 8			X
5 - 6			X
9 - 10		X	
11 - 12	X		
13 - 14	X		
15 - 16		X	
19 - 20			X



MINI CAM SWITCH - 10 A (AC21)

Ø 16 or 22 single hole front mounting

Cat. No.



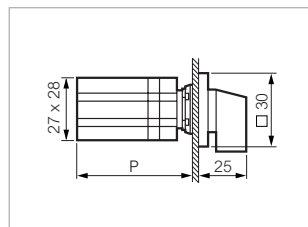
223516

□ 30 aluminium plate and frame

1P -3 contacts
2P -6 contacts
3P -9 contacts



223515
223516
223517



Dimensions in mm

*P: 50 (3 CONTACTS)
74 (6 CONTACTS)
95 (9 CONTACTS)

PR 12 - 16 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



ND51EQ1

Designation

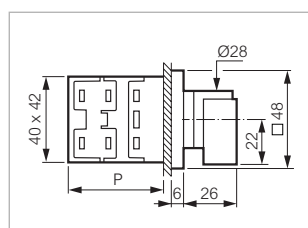
Grey/black small handle
□ 48 aluminium plate and frame

1P -3 contacts
2P -6 contacts
3P -9 contacts



PR12 2351 A8 E Q48PN
PR12 2352 A8 E Q48PN
PR12 2353 A8 E Q48PN

ND51EQ1
ND52EQ1
ND53EQ1



Dimensions in mm

*P: 46 (3 CONTACTS)
56 (6 CONTACTS)
76 (9 CONTACTS)

*P = Depth

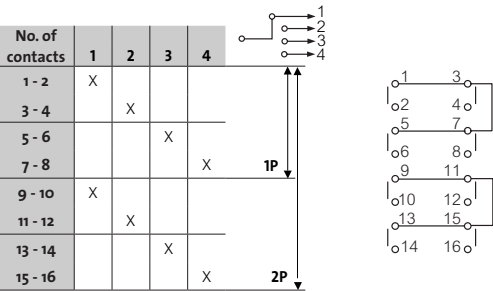
Catalogue No. in bold: normally in stock at distribution outlets

Cam switches



Characteristics (p. 213)

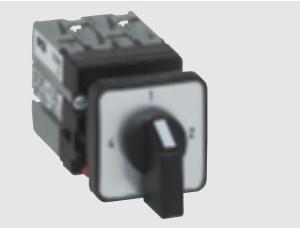
► 4-WAY CAM SWITCHES WITHOUT “OFF” POSITION



MINI CAM SWITCH - 10 A (AC21)

Ø 16 or 22 single hole front mounting

Cat. No.



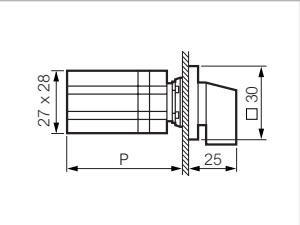
223525

□ 30 aluminium plate and frame

1P -4 contacts
2P -8 contacts



223525
223526



Dimensions in mm
***P: 62 (4 CONTACTS)**
86 (8 CONTACTS)

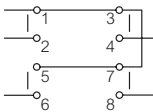
*P = Depth

Cam switches

 Characteristics (p. 213)

► CODING SWITCH WITH “OFF”

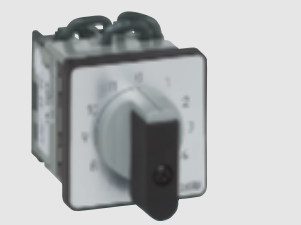
No. of contacts	0	1	2	3	4	5	6	7	8	9	10	11
1 - 2		X		X		X		X		X		X
3 - 4			X	X			X	X			X	X
5 - 6					X			X				
7 - 8									X			X



PR 12 - 16 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



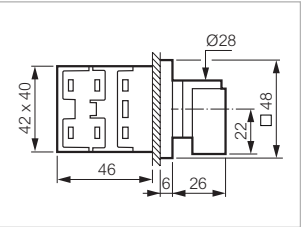
NR51UQ1

Designation
Grey/black small handle
□ 48 aluminium plate and frame

4 contacts



PR12 6501 A1 E Q48PN NR51UQ1



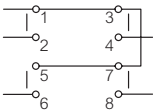
Cam switches



Characteristics (p. 213)

CODING SWITCH WITHOUT “OFF”

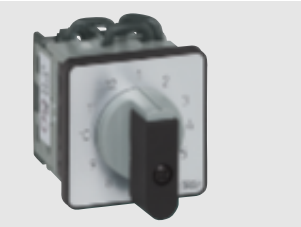
No. of contacts	Positions											
	1	2	3	4	5	6	7	8	9	10	11	12
1 - 2	X		X		X		X		X		X	
3 - 4		X	X			X	X			X	X	
5 - 6				X				X				X
7 - 8								X				X



PR 12 - 16 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



NR52UQ1

- Grey/black small handle
- 48 aluminium plate and frame

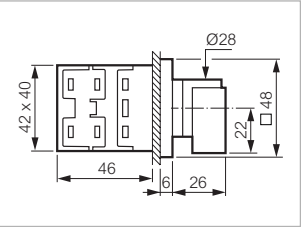
4 contacts



Designation

PR12 6502 A1 E Q48PN

NR52UQ1

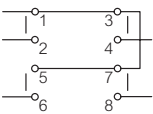


Cam switches

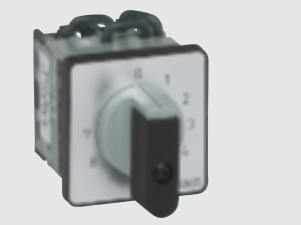
 Characteristics (p. 213)

► CODING SWITCH (COMPLEMENTARY BCD CODE, 0 TO 9)

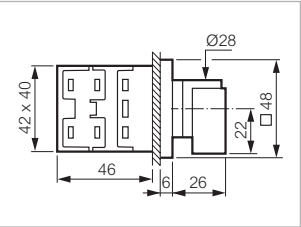
No. of contacts	Positions									
	0	1	2	3	4	5	6	7	8	9
1 - 2		X		X		X		X		X
3 - 4			X	X			X	X		
5 - 6					X			X		
7 - 8									X	X



PR 12 - 16 A (AC21) 2-screw panel mount – interval: 30 mm Cat. No.



NR53UQ1



Designation

Grey/black small handle
□ 48 aluminium plate and frame
With complete rotation possible

4 contacts



PR12 6503 A1 E Q48PN

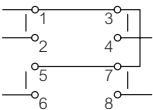
NR53UQ1

Cam switches

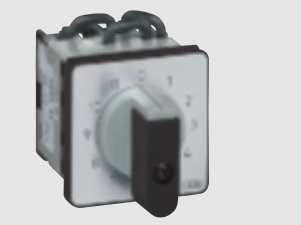
 Characteristics (p. 213)

► COMPLEMENTARY BCD CODE, 0 TO 9

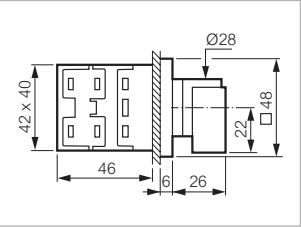
No. of contacts	Positions									
	0	1	2	3	4	5	6	7	8	9
1 - 2	X		X		X		X		X	
3 - 4	X	X			X	X			X	X
5 - 6	X			X					X	X
7 - 8	X							X		



PR 12 - 16 A (AC21) 2-screw panel mount – interval: 30 mm Cat. No.



NR54UQ1



Designation

- Grey/black small handle
- 48 aluminium plate and frame
- With complete rotation possible

4 contacts



PR12 6504 A1 E Q48PN

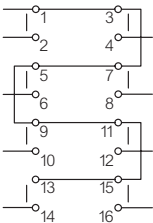
NR54UQ1

Cam switches

 Characteristics (p. 213)

► BCD CODE, 0 TO 9, + COMPLEMENTARY BCD CODE

No. of contacts	Positions									
	0	1	2	3	4	5	6	7	8	9
1 - 2		X		X		X		X		X
3 - 4			X	X			X	X		
5 - 6					X			X		
7 - 8									X	X
9 - 10	X		X		X		X		X	
11 - 12	X	X			X	X			X	X
13 - 14	X			X					X	X
15 - 16	X							X		



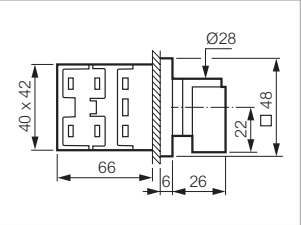
PR 12 - 16 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



NR55UQ1



Designation

- Grey/black small handle
- 48 aluminium plate and frame
- With complete rotation possible

8 contacts



PR12 6505 A1 E Q48PN

NR55UQ1

Cam switches



Characteristics (p. 213)

► ACCESSORIES

FIXING TOOL

Cat. No.



223520

For mini cam switches

223520

FIXING TOOL

Cat. No.



LWA0234

Fixing tool for PR 12 cam switches
ø 22 single hole front mounting

LWA0234

Technical characteristics

► MINI CAM SWITCHES

Characteristics	Data
► Thermal current I _{th}	10 A
► Rated operating current I _e	
- in AC 21	10 A
- in AC 15	2.5 A
► Motor performance in AC-3	
- 3 x 230 V	1.8 kW
- 3 x 400 V	2.2 kW
► Motor performance in AC-23	
- 1 x 230 V	0.75 kW
- 1 x 400 V	1.1 kW
- 3 x 230 V	1.8 kW
- 3 x 400 V	3 kW
► Rated insulation voltage U _i (V)	500 V
► Rated operating current in DC-1 L/R < 1ms	
- 24 V DC	10 A
- 40 V DC	6 A
- 60 V DC	2.5 A
- 110 V DC	0.7 A
- 220 V DC	0.3 A
► Rated conditional short-circuit current	3 kA
► Max. fuse rating	10 A
► Degree of protection	IP 65 IP 2x at the rear of the panel
► Wire size (flexible and rigid)	2 x 1.5 mm ² max. 1 x 0.5 mm ² min.
► Operating temperature	- 20°C to + 50°C
► Standards	IEC 60947-1 IEC 60947-3 CSA 22.2 UL 508

► CAM SWITCHES

Characteristics	PR 12	PR 17	PR 21	PR 26	PR 40	PR 63	PR 125	PR 160
► For thermal current I _{th} I _c (A)	20	25	32	40	63	63	200	250
► Rated operating current for AC-21 A I _e (A) (IEC 60 947-3)								
Switching of resistive loads including moderate overloads	16	20	25	32	50	63	160	200
► Rated operating current for AC-15 A I _e (A) at 230V AC (IEC 60 947-3)								
Control of electromagnetic loads	6	8	10	12	-	-	-	-

Technical characteristics

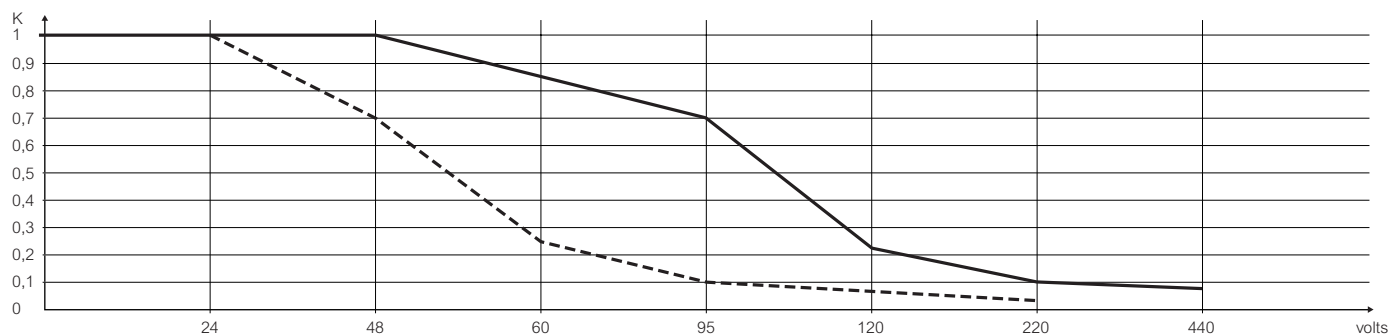
► SELECTOR SWITCHES

Characteristics	PR 12	PR 17	PR 21	PR 26	PR 40	PR 63	PR 125	PR 160
► Performance in AC 23 (kW) (IEC 60 947-3) Switching of motors or other highly inductive loads								
- 3 x 230 V	4	5.5	7.5	11	15	18.5	-	-
- 3 x 400 V	7.5	11	11	11	22	25	-	-
- 3 x 500 V	5.5	11	11	11	25	25	-	-
- 3 x 690 V	4	10	10	11	18.5	22	-	-
► Performance in AC 3 (IEC 60 947-3) Control of squirrel-cage motors starting and switching off motors while running								
- In kW								
- 3 x 230 V	3	4	4	5.5	11	15	-	-
- 3 x 400 V	4	7.5	7.5	11	18.5	22	-	-
- 3 x 500 V	5.5	7.5	7.5	11	18.5	22	-	-
- 3 x 690 V	3	7.5	7.5	11	18.5	22	-	-
- In HP (for reference)								
- 3 x 230 V	4	5.5	5.5	7.5	15	20	-	-
- 3 x 400 V	5.5	10	10	15	25	30	-	-
- 3 x 500 V	7.5	10	10	15	25	30	-	-
- 3 x 690 V	4	10	10	15	25	30	-	-
► Rated insulation voltage U_i (V)	690	690	690	690	690	690	690	690
- Max. rated voltage U_e (V) IEC	690	690	690	690	690	690	690	690
- CSA (Canada)	600	600	600	600	600	600	600	600
- UL (USA)	600	600	600	600	600	600	600	600
► Rated short time withstand current I_{cw} (A) for 1 sec	300	400	420	800	1200	1500	2400	3000
► Maximum wire size (mm²)								
- rigid	4	6/4 ⁽¹⁾	6/4 ⁽¹⁾	6	16	16	ø 8 screw for eyelet	
- flexible	2.5	4	4	6	16	16	ø 8 screw for eyelet	

(1): These values correspond to terminals with jumpers

► Mechanical durability	1,250,000 operations, maximum rate 150 operations per hour
► Operating temperature limits	- 20°C to + 70°C (beyond these limits consult us)
► Rated operating current in DC-1 low inductive loads (< 1 ms)	

Rated operating current I_e (A) 24 V DC 16 20 25 32 50 63 - -
 I_e (A): rated current for breaking 1 contact. For higher voltages you must use a reduction coefficient K in the following graph



reduction coefficient K for rated operating current in DC-1 continuous current

Separate cam switches

To order your cam switch, it is essential to follow the 5-step procedure (see presentation on p. 127)
Mini cam switches are only available in standard versions.

► I - CHOICE OF SWITCH SIZE

TECHNICAL CHARACTERISTICS

The choice of switch size depends on the type of load to be switched
Cam switches are devices designed mainly for use with AC current
When using with DC current, you must use a reduction coefficient (see previous page)

PRICE LIST CODE

The price list code allows you (if necessary) to determine the price of the chosen switch by referring to the current price list

RATING	PR 12	PR 17	PR 21	PR 26	PR 40	PR 63	PR 125	PR 160
PRICE LIST CODE	N	S	T	Z	H	I	L	M

EXAMPLE

1 You are looking for a switch to control motors (3x230 V) with a power rating of 18.5 kW, what you need is a **PR 63**.

Characteristics	PR 12	PR 17	PR 21	PR 26	PR 40	PR 63	PR 125	PR 160
► Performance in AC 23 (kW) (IEC 60 947-3) Switching of motors or other highly inductive loads								
- 3 x 230 V	4	5.5	7.5	11	15	18.5	-	-
- 3 x 400 V	7.5	11	11	11	22	25	-	-
- 3 x 500 V	5.5	11	11	11	25	25	-	-
- 3 x 690 V	4	10	10	11	18.5	22	-	-

2 For a PR 63 the price list code is: **I**

RATING	PR 12	PR 17	PR 21	PR 26	PR 40	PR 63	PR 125	PR 160
PRICE LIST CODE	N	S	T	Z	H	I	L	M

Separate cam switches

To order your cam switch, it is essential to follow the 5-step procedure (see presentation on p. 127)
Mini cam switches are only available in standard versions.

► II - CHOICE OF FUNCTION (DIAGRAM AND SWITCHING ANGLE)

FUNCTIONS

The electrical circuit diagram for separate switches can be:

- A standard diagram (see p. 207 to 238).

Examples:



- A special diagram to your own requirement (complete the form on p. 277)



EXAMPLE

- 1 The reference of the diagram for a 1-2 contact switch (p. 208) is: **1101**, and its price list code is: **A01Z**

DIAGRAM (REFERENCE AND PRICE LIST CODE)

Contact Nos.	Positions 0 1 - - - - -	No. of poles	No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
1 - 2	X	1	1	$\begin{matrix} 1 \\ 0 \end{matrix} \quad \begin{matrix} 3 \\ 0 \end{matrix}$	1101	A01Z
3 - 4	X	2	2	$\begin{matrix} 1 \\ 0 \end{matrix} \quad \begin{matrix} 3 \\ 0 \end{matrix}$	1102	A02Z
5 - 6	X	3	3	$\begin{matrix} 1 \\ 0 \end{matrix} \quad \begin{matrix} 3 \\ 0 \end{matrix}$	1103	A03Z
7 - 8	X	4	4	$\begin{matrix} 1 \\ 0 \end{matrix} \quad \begin{matrix} 3 \\ 0 \end{matrix}$	1104	A04Z
9 - 10	X	5	5	$\begin{matrix} 1 \\ 0 \end{matrix} \quad \begin{matrix} 3 \\ 0 \end{matrix}$	1105	A05Z
11 - 12	X	6	6	$\begin{matrix} 1 \\ 0 \end{matrix} \quad \begin{matrix} 3 \\ 0 \end{matrix}$	1106	A06Z

- 2 For a switch, the reference of the 90° switching angle with spring return is: **AR10**, and the price list code is: **Y640**

SWITCHING ANGLE (REFERENCE AND PRICE LIST CODE)

30°	45°	60°	90°	90°	Spring return	Spring return
Cat. No. A1	A8	A6	A4	M4	AR10*	VR11*

Spring return extra charge

* Y652 (PR12)

Y639 (PR17 26)

Y640 (PR40 63)

Number of spring return contacts

≤ 4 (PR12 25)

≤ 2 (PR40 63)

- 3 The full catalogue number for the function is **1101 - AR10**, and its price list code is **(I)A01Z - Y640**

Separate cam switches

To order your cam switch, it is essential to follow the 5-step procedure (see presentation on p. 127)
Mini cam switches are only available in standard versions.

► II - CHOICE OF FUNCTION (DIAGRAM AND SWITCHING ANGLE)

FUNCTIONS	Diagram	Page
► Switches From 1 to 24 poles, each pole being a path for the current, the circuit being open at starting position 0, and closed at position 1		218
► 2 way change-over switches without off position From 1 to 12 poles, each pole having 2 current paths, one path is closed at position 1, the other at position 2 The two paths can be joined by a common point (link)		219
► 2 way change-over switches with off position From 1 to 12 poles, each pole having 2 current paths, one path is closed at position 1, the other at position 2. Both paths can be open at position 0 and joined by a common point (link)		220
► 3 to 8-way cam switches Each pole having respectively 3 to 8 paths for the current, the number of poles multiplied by the number of ways must be 24 or less The starting position is either 0 (diagram with OFF) or 1 (diagram without OFF) The current paths of the same pole are connected together by links		221
► Grouping switches From 2 to 4 ways with or without starting position at 0, each pole having respectively 2 to 4 current paths which close consecutively and remain closed on the following positions, thus grouping 2 to 4 elements The current paths of the same pole are connected together by links		233
► Instrument switches For ammeters wired without a CT or with several CTs connected on the corresponding circuits The CTs can be mounted in series, with a common point or independently, they are always short-circuited when not feeding the ammeters		236 236
For voltmeters wired into 3-phase networks with or without neutral		238
► Motor control switches For 3-phase asynchronous motors with Y - ▲ starting, with several speeds, with or without reversing		239
► Switches for coupling 2 or 3 resistors		245
► Coding switches Code BCD and additional BCD		247

Separate cam switches

SWITCHES

DIAGRAM (REFERENCE AND PRICE LIST CODE)

Contact Nos.	Positions										No. of poles	No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
	0	1	-	-	-	-	-	-	-	-					
1 -2 3 -4	X										1	1		1101	A01Z
	X										2	2		1102	A02Z
5 -6 7 -8	X										3	3		1103	A03Z
	X										4	4		1104	A04Z
9 -10 11 -12	X										5	5		1105	A05Z
	X										6	6		1106	A06Z
13 -14 15 -16	X										7	7		1107	A07Z
	X										8	8		1108	A08Z
17 -18 19 -20	X										9	9		1109	A09Z
	X										10	10		1110	A10Z
21 -22 23 -24	X										11	11		1111	A11Z
	X										12	12		1112	A12Z
25 -26 27 -28	X										13	13		1113	A13Z
	X										14	14		1114	A14Z
29 -30 31 -32	X										15	15		1115	A15Z
	X										16	16		1116	A16Z
33 -34 35 -36	X										17	17		1117	A17Z
	X										18	18		1118	A18Z
37 -38 39 -40	X										19	19		1119	A19Z
	X										20	20		1120	A20Z
41 -42 43 -44	X										21	21		1121	A21Z
	X										22	22		1122	A22Z
45 -46 47 -48	X										23	23		1123	A23Z
	X										24	24		1124	A24Z

SWITCHING ANGLE (REFERENCE AND PRICE LIST CODE)

30°	45°	60°	90°	90°	Spring return	Spring return
Cat. No. A1	A8	A6	A4	M4	AR10*	VR11*
Cat. No. B1	B8	B6	B4			
Cat. No. V8			D4			

Spring return extra charge
 * Y652 (PR12)
 Y639 (PR17 26)
 Y640 (PR40 63)

Number of spring return contacts
 ≤ 4 (PR12 26)
 ≤ 2 (PR40 63)

Separate cam switches

► 2-WAY CHANGE-OVER SWITCHES WITHOUT OFF

DIAGRAM (REFERENCE AND PRICE LIST CODE) (with link for common point)

Contact Nos.	Positions 1 2	No. of poles	No. of contacts	Connection terminals* + links	Diagram* reference	Diagram price list code
1 - 2 3 - 4	X	1	2		2251	A02Z
5 - 6 7 - 8	X	2	4		2252	A04Z
9 - 10 11 - 12	X	3	6		2253	A06Z
13 - 14 15 - 16	X	4	8		2254	A08Z
17 - 18 19 - 20	X	5	10		2255	A10Z
21 - 22 23 - 24	X	6	12		2256	A12Z
25 - 26 27 - 28	X	7	14		2257	A14Z
29 - 30 31 - 32	X	8	16		2258	A16Z
33 - 34 35 - 36	X	9	18		2259	A18Z
37 - 38 39 - 40	X	10	20		2260	A20Z
41 - 42 43 - 44	X	11	22		2261	A22Z
45 - 46 47 - 48	X	12	24		2262	A24Z

*For diagrams without a link, replace number 2 by number 1 at the beginning of the diagram reference.

SWITCHING ANGLE (REFERENCE AND PRICE LIST CODE)

30°	45°	60°	90°	90°	Spring return	Spring return
Cat. No. A1	A8	A6	A4	D4	AR10*	VR11*
Cat. No. B1	B8	B6	B4			
Cat. No.	V8		M4			

Spring return extra charge
 * Y652 (PR12)
 Y639 (PR17 → 26)
 Y640 (PR40 → 63)

Number of spring
 return contacts
 ≤ 4 (PR12 → 26)
 ≤ 2 (PR40 → 63)

Separate cam switches

► 2-WAY CHANGE-OVER SWITCHES WITH OFF

DIAGRAM (REFERENCE AND PRICE LIST CODE) (with link for common point)

Contact Nos.	Positions 0 1 2 - - - - -	No. of poles	No. of contacts	Connection terminals* + links	Diagram* reference	Diagram price list code
1 - 2 3 - 4	X X	1	2		2201	A02Z
5 - 6 7 - 8	X X	2	4		2202	A04Z
9 - 10 11 - 12	X X	3	6		2203	A06Z
13 - 14 15 - 16	X X	4	8		2204	A08Z
17 - 18 19 - 20	X X	5	10		2205	A10Z
21 - 22 23 - 24	X X	6	12		2206	A12Z
25 - 26 27 - 28	X X	7	14		2207	A14Z
29 - 30 31 - 32	X X	8	16		2208	A16Z
33 - 34 35 - 36	X X	9	18		2209	A18Z
37 - 38 39 - 40	X X	10	20		2210	A20Z
41 - 42 43 - 44	X X	11	22		2211	A22Z
45 - 46 47 - 48	X X	12	24		2212	A24Z

*For diagrams without a link, replace number 2 by number 1 at the beginning of the diagram reference.

SWITCHING ANGLE (REFERENCE AND PRICE LIST CODE)

30°	45°	60°	90°	Misc	Spring return	Spring return	Spring return	Spring return	Spring return
Cat. No. A1	A8	A6	A4	J4	AR23*	AR25*	AR32*	BR19*	CR12*
Cat. No. B1	B8	B6	B4	M6	CR13*	CR14*	CR19*		
Cat. No. C1	C8	C6	C4	V8	CR20*	VR12*	VR13*		

Spring return extra charge
 * Y652 (PR12)
 Y639 (PR17 → 26)
 Y640 (PR40 → 63)

Number of spring
 return contacts
 ≤ 4 (PR12 → 26)
 ≤ 2 (PR40 → 63)

Separate cam switches

► 3-WAY SWITCHES WITHOUT OFF

DIAGRAM (REFERENCE AND PRICE LIST CODE) (with link for common point)

Contact Nos.	Positions 1 2 3 - - - - -	No. of poles	No. of contacts	Connection terminals* + links	Diagram* reference	Diagram price list code
1-2 3-4 7-8	X X X	1	3		2351	A03Z
5-6 9-10 11-12	X X X	2	6		2352	A06Z
13-14 15-16 19-20	X X X	3	9		2353	A09Z
17-18 21-22 23-24	X X X	4	12		2354	A12Z
25-26 27-28 31-32	X X X	5	15		2355	A15Z
29-30 33-34 35-36	X X X	6	18		2356	A18Z
37-38 39-40 43-44	X X X	7	21		2357	A21Z
41-42 45-46 47-48	X X X	8	24		2358	A24Z

*For diagrams without a link, replace number 2 by number 1 at the beginning of the diagram reference.

SWITCHING ANGLE (REFERENCE AND PRICE LIST CODE)

30°	45°	60°	90°	60°	Spring return	Spring return	Spring return
Cat. No. A1	A8	A6	A4	M6	AR23*	AR25*	
Cat. No. B1	B8	B6	B4		BR19*		
Cat. No. C1	C8	C6			CR12*	CR13*	CR14*

Spring return extra charge
 * Y652 (PR12)
 Y639 (PR17 → 26)
 Y640 (PR40 → 63)

Number of spring
 return contacts
 ≤ 4 (PR12 → 26)
 ≤ 2 (PR40 → 63)

Separate cam switches

3-WAY SWITCHES WITH OFF

DIAGRAM (REFERENCE AND PRICE LIST CODE) (with link for common point)

Contact Nos.	Positions 0 1 2 3 - - - - -	No. of poles	No. of contacts	Connection terminals* + links	Diagram* reference	Diagram price list code
1-2 3-4 7-8	X X X	1	3		2301	A03Z
5-6 9-10 11-12	X X X	2	6		2302	A06Z
13-14 15-16 19-20	X X X	3	9		2303	A09Z
17-18 21-22 23-24	X X X	4	12		2304	A12Z
25-26 27-28 31-32	X X X	5	15		2305	A15Z
29-30 33-34 35-36	X X X	6	18		2306	A18Z
37-38 39-40 43-44	X X X	7	21		2307	A21Z
41-42 45-46 47-48	X X X	8	24		2308	A24Z

*For diagrams without a link, replace number 2 by number 1 at the beginning of the diagram reference.

SWITCHING ANGLE (REFERENCE AND PRICE LIST CODE)

30°	45°	60°	90°	45°	Spring return	Spring return
Cat. No. A1	A8	A6	A4	V8	BR15*	VR16*
Cat. No. B1	B8	B6	B4			
Cat. No. M8	J6					

Spring return extra charge
 * Y652 (PR12)
 Y639 (PR17 → 26)
 Y640 (PR40 → 63)

Number of spring
 return contacts
 ≤ 4 (PR12 → 26)
 ≤ 2 (PR40 → 63)

Separate cam switches

► 4-WAY SWITCHES WITHOUT OFF

DIAGRAM (REFERENCE AND PRICE LIST CODE) (with link for common point)

Contact Nos.	Positions 1 2 3 4 - - - - -	No. of poles	No. of contacts	Connection terminals* + links	Diagram* reference	Diagram price list code
1 -2 3 -4 5 -6 7 -8	X X X X	1	4		2451	Ao4Z
9 -10 11 -12 13 -14 15 -16	X X X X	2	8		2452	Ao8Z
17 -18 19 -20 21 -22 23 -24	X X X X	3	12		2453	A12Z
25 -26 27 -28 29 -30 31 -32	X X X X	4	16		2454	A16Z
33 -34 35 -36 37 -38 39 -40	X X X X	5	20		2455	A20Z
41 -42 43 -44 45 -46 47 -48	X X X X	6	24		2456	A24Z

*For diagrams without a link, replace number 2 by number 1 at the beginning of the diagram reference.

SWITCHING ANGLE (REFERENCE AND PRICE LIST CODE)

30°	45°	60°	90°	45°	Spring return	Spring return
Cat. No. A1	A8	A6	A4	V8	AR30*	
Cat. No. B1	B8	B6	B4		BR15*	BR41*
Cat. No. V1	M8				VR16*	VR28*

Spring return extra charge

* Y652 (PR12)
Y639 (PR17 → 26)
Y640 (PR40 → 63)

Number of spring
return contacts

≤ 4 (PR12 → 26)
≤ 2 (PR40 → 63)

Separate cam switches

► 4-WAY SWITCHES WITH OFF

DIAGRAM (REFERENCE AND PRICE LIST CODE) (with link for common point)

Contact Nos.	Positions 0 1 2 3 4 - - - - -	No. of poles	No. of contacts	Connection terminals* + links	Diagram* reference	Diagram price list code
1 -2 3 -4 5 -6 7 -8	X X X X	1	4		2401	A04Z
9 -10 11 -12 13 -14 15 -16	X X X X	2	8		2402	A08Z
17 -18 19 -20 21 -22 23 -24	X X X X	3	12		2403	A12Z
25 -26 27 -28 29 -30 31 -32	X X X X	4	16		2404	A16Z
33 -34 35 -36 37 -38 39 -40	X X X X	5	20		2405	A20Z
41 -42 43 -44 45 -46 47 -48	X X X X	6	24		2406	A24Z

*For diagrams without a link, replace number 2 by number 1 at the beginning of the diagram reference.

SWITCHING ANGLE (REFERENCE AND PRICE LIST CODE)

30°	45°	60°	45°	Spring return	Spring return	Spring return
Cat. No. A1	A8	A6	J8	AR38*		
Cat. No. B1	B8	B6				
Cat. No. C1	C8	C6	CR27*	CR34*	CR40*	

Spring return extra charge

* Y652 (PR12)
Y639 (PR17 → 26)
Y640 (PR40 → 63)

Number of spring

return contacts
≤ 4 (PR12 → 26)
≤ 2 (PR40 → 63)

Separate cam switches

► 5-WAY SWITCHES WITHOUT OFF

DIAGRAM (REFERENCE AND PRICE LIST CODE) (with link for common point)

Contact Nos.	Positions 1 2 3 4 5 - - - - -	No. of poles	No. of contacts	Connection terminals* + links	Diagram* reference	Diagram price list code
1 -2 3 -4 5 -6 7 -8 9 -10	X X X X X	1	5		2551	A05Z
11 -12 13 -14 15 -16 17 -18 19 -20	X X X X X	2	10		2552	A10Z
21 -22 23 -24 25 -26 27 -28 29 -30	X X X X X	3	15		2553	A15Z
31 -32 33 -34 35 -36 37 -38 39 -40	X X X X X	4	20		2554	A20Z

*For diagrams without a link, replace number 2 by number 1 at the beginning of the diagram reference.

SWITCHING ANGLE (REFERENCE AND PRICE LIST CODE)

30° 45° 60° Spring return



Cat. No. A1



A8



A6



Cat. No. B1



B8



B6



BR27*



Cat. No. V8

Spring return extra charge
* Y652 (PR12)
Y639 (PR17 → 26)
Y640 (PR40 → 63)

Number of spring
return contacts
≤ 4 (PR12 → 26)
≤ 2 (PR40 → 63)

Separate cam switches

► 5-WAY SWITCHES WITH OFF

DIAGRAM (REFERENCE AND PRICE LIST CODE) (with link for common point)

Contact Nos.	Positions 0 1 2 3 4 5 - - - - -	No. of poles	No. of contacts	Connection terminals* + links	Diagram* reference	Diagram price list code
1 -2 3 -4 5 -6 7 -8 9 -10	X X X X X	1	5		2501	A05Z
11 -12 13 -14 15 -16 17 -18 19 -20	X X X X X	2	10		2502	A10Z
21 -22 23 -24 25 -26 27 -28 29 -30	X X X X X	3	15		2503	A15Z
31 -32 33 -34 35 -36 37 -38 39 -40	X X X X X	4	20		2504	A20Z

*For diagrams without a link, replace number 2 by number 1 at the beginning of the diagram reference.

SWITCHING ANGLE (REFERENCE AND PRICE LIST CODE)

30°	45°	60°
Cat. No. A1	A8	A6
Cat. No. B1	B8	B6
Cat. No. M1	V6	

Separate cam switches

► 6-WAY SWITCHES WITHOUT OFF

DIAGRAM (REFERENCE AND PRICE LIST CODE) (with link for common point)

Contact Nos.	Positions 1 2 3 4 5 6 - - - - -	No. of poles	No. of contacts	Connection terminals* + links	Diagram* reference	Diagram price list code
1 -2 3 -4 5 -6 7 -8 9 -10 11 -12	X X X X X X	1	6		2651	Ao6Z
13 -14 15 -16 17 -18 19 -20 21 -22 23 -24	X X X X X X	2	12		2652	A12Z
25 -26 27 -28 29 -30 31 -32 33 -34 35 -36	X X X X X X	3	18		2653	A18Z
37 -38 39 -40 41 -42 43 -44 45 -46 47 -48	X X X X X X	4	24		2654	A24Z

*For diagrams without a link, replace number 2 by number 1 at the beginning of the diagram reference.

SWITCHING ANGLE (REFERENCE AND PRICE LIST CODE)

30°	45°	60°
Cat. No. A1	A8	A6
Cat. No. B1	B8	B6
Cat. No. M1		

Separate cam switches

► 6-WAY SWITCHES WITH OFF

DIAGRAM (REFERENCE AND PRICE LIST CODE) (with link for common point)

Contact Nos.	Positions o 1 2 3 4 5 6 - - - -	No. of poles	No. of contacts	Connection terminals* + links	Diagram* reference	Diagram price list code
1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12	X X X X X X	1	6		2601	Ao6Z
13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24	X X X X X X	2	12		2602	A12Z
25 - 26 27 - 28 29 - 30 31 - 32 33 - 34 35 - 36	X X X X X X	3	18		2603	A18Z
37 - 38 39 - 40 41 - 42 43 - 44 45 - 46 47 - 48	X X X X X X	4	24		2604	A24Z

*For diagrams without a link, replace number 2 by number 1 at the beginning of the diagram reference.

SWITCHING ANGLE (REFERENCE AND PRICE LIST CODE)

30°	45°
Cat. No. A1	A8
Cat. No. B1	B8
Cat. No. J1	C8

Separate cam switches

► 7-WAY SWITCHES WITHOUT OFF

DIAGRAM (REFERENCE AND PRICE LIST CODE) (with link for common point)

Contact Nos.	Positions 1 2 3 4 5 6 7 - - - -	No. of poles	No. of contacts	Connection terminals* + links	Diagram* reference	Diagram price list code
1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 15 - 16	X X X X X X X	1	7		2751	A07Z
13 - 14 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28	X X X X X X X	2	14		2752	A14Z
29 - 30 31 - 32 33 - 34 35 - 36 37 - 38 39 - 40 43 - 44	X X X X X X X	3	21		2753	A21Z
41 - 42 45 - 46 47 - 48						

*For diagrams without a link, replace number 2 by number 1 at the beginning of the diagram reference.

SWITCHING ANGLE (REFERENCE AND PRICE LIST CODE)

30°

45°



Cat. No. A1



A8



Cat. No. B1



B8



Cat. No. C8

Separate cam switches

► 7-WAY SWITCHES WITH OFF

DIAGRAM (REFERENCE AND PRICE LIST CODE) (with link for common point)

Contact Nos.	Positions 0 1 2 3 4 5 6 7 - - -	No. of poles	No. of contacts	Connection terminals +* links	Diagram* reference	Diagram price list code
1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 15 - 16	X X X X X X X	1	7		2701	A07Z
13 - 14 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28	X X X X X X X	2	14		2702	A14Z
29 - 30 31 - 32 33 - 34 35 - 36 37 - 38 39 - 40 43 - 44	X X X X X X X	3	21		2703	A21Z
41 - 42 45 - 46 47 - 48						

*For diagrams without a link, replace number 2 by number 1 at the beginning of the diagram reference.

SWITCHING ANGLE (REFERENCE AND PRICE LIST CODE)

30°	45°
Cat. No. A1	A8
Cat. No. B1	B8

Separate cam switches

► 8-WAY SWITCHES WITHOUT OFF

DIAGRAM (REFERENCE AND PRICE LIST CODE) (with link for common point)

Contact Nos.	Positions 1 2 3 4 5 6 7 8 - - -	No. of poles	No. of contacts	Connection terminals* + links	Diagram* reference	Diagram price list code
1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16	X X X X X X X X	1	8		2851	A08Z
17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 31 - 32	X X X X X X X X	2	16		2852	A16Z
33 - 34 35 - 36 37 - 38 39 - 40 41 - 42 43 - 44 45 - 46 47 - 48	X X X X X X X X	3	24		2853	A24Z

*For diagrams without a link, replace number 2 by number 1 at the beginning of the diagram reference.

SWITCHING ANGLE (REFERENCE AND PRICE LIST CODE)

30°

45°



Cat. No. A1

A8



Cat. No. B1

B8

For more than 8 ways, please contact us.

Separate cam switches

► 8-WAY SWITCHES WITH OFF

DIAGRAM (REFERENCE AND PRICE LIST CODE) (with link for common point)

Contact Nos.	Positions 0 1 2 3 4 5 6 7 8 - - -	No. of poles	No. of contacts	Connection terminals* + links	Diagram* reference	Diagram price list code
1 -2 3 -4 5 -6 7 -8 9 -10 11 -12 13 -14 15 -16	X X X X X X X X	1	8		2801	A08Z
17 -18 19 -20 21 -22 23 -24 25 -26 27 -28 29 -30 31 -32	X X X X X X X X	2	16		2802	A16Z
33 -34 35 -36 37 -38 39 -40 41 -42 43 -44 45 -46 47 -48	X X X X X X X X	3	24		2803	A24Z

*For diagrams without a link, replace number 2 by number 1 at the beginning of the diagram reference.

SWITCHING ANGLE (REFERENCE AND PRICE LIST CODE)

30°



Cat. No. A1



Cat. No. B1



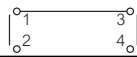
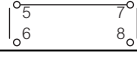
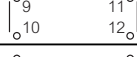
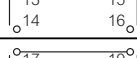
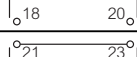
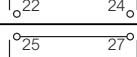
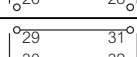
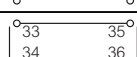
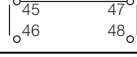
Cat. No. C1

For more than 8 ways, please contact us.

Separate cam switches

► GROUPING SWITCHES FOR 2 ELEMENTS

DIAGRAM (REFERENCE AND PRICE LIST CODE)

Contact Nos.	Positions												No. of poles	No. of contacts	Connection terminals + links	Diagram reference		Diagram price list code
	0	1	2	-	-	-	-	-	-	-	-	-				with off	without off	
1 - 2 3 - 4	X	X											1	2		5201	5251	A02Z
5 - 6 7 - 8	X	X											2	4		5202	5252	A04Z
9 - 10 11 - 12	X	X											3	6		5203	5253	A06Z
13 - 14 15 - 16	X	X											4	8		5204	5254	A08Z
17 - 18 19 - 20	X	X											5	10		5205	5255	A10Z
21 - 22 23 - 24	X	X											6	12		5206	5256	A12Z
25 - 26 27 - 28	X	X											7	14		5207	5257	A14Z
29 - 30 31 - 32	X	X											8	16		5208	5258	A16Z
33 - 34 35 - 36	X	X											9	18		5209	5259	A18Z
37 - 38 39 - 40	X	X											10	20		5210	5260	A20Z
41 - 42 43 - 44	X	X											11	22		5211	5261	A22Z
45 - 46 47 - 48	X	X											12	24		5212	5262	A24Z

SWITCHING ANGLE (REFERENCE AND PRICE LIST CODE)

Diagram with off position

30°	45°	60°	90°
			
Cat. No. A1	A8	A6	A4
			
Cat. No. B1	B8	B6	B4

Diagram without off position

30°	45°	60°	90°
			
A1	A8	A6	A4
			
B1	B8	B6	B4

	
Cat. No. V8	M6

Separate cam switches

► GROUPING SWITCHES FOR 3 ELEMENTS

DIAGRAM (REFERENCE AND PRICE LIST CODE)

Contact Nos.	Positions										No. of poles	No. of contacts	Connection terminals + links	Diagram reference		Diagram price list code
	0	1	2	3	-	-	-	-	-	-				with off	without off	
1-2 3-4 7-8	X	X									1	3		5301	5351	A03Z
5-6 9-10 11-12		X	X								2	6		5302	5352	A06Z
13-14 15-16 17-18	X	X									3	9		5303	5353	A09Z
19-20 21-22 23-24		X	X								4	12		5304	5354	A12Z
25-26 27-28 29-30	X	X									5	15		5305	5355	A15Z
31-32 33-34 35-36		X	X								6	18		5306	5356	A18Z
37-38 39-40 41-42	X	X									7	21		5307	5357	A21Z
43-44 45-46 47-48		X	X								8	24		5308	5358	A24Z

SWITCHING ANGLE (REFERENCE AND PRICE LIST CODE)

Diagram with off position

Diagram without off position

30°				45°				60°				90°			
Cat. No. A1				Cat. No. A8				Cat. No. A6				Cat. No. A4			
Cat. No. B1				Cat. No. B8				Cat. No. B6				Cat. No. B4			
Cat. No. V8 (45°)				Cat. No. M8											
												Cat. No. V8			
												Cat. No. M6			

Separate cam switches

► GROUPING SWITCHES FOR 4 ELEMENTS

DIAGRAM (REFERENCE AND PRICE LIST CODE)

Contact Nos.	Positions								No. of poles	No. of contacts	Connection terminals + links	Diagram reference		Diagram price list code
	0	1	2	3	4	-	-	-				with off	without off	
1 - 2 3 - 4 5 - 6 7 - 8	X			X					1	4		5401	5451	A04Z
9 - 10 11 - 12 13 - 14 15 - 16	X			X					2	8		5402	5452	A08Z
17 - 18 19 - 20 21 - 22 23 - 24	X			X					3	12		5403	5453	A12Z
25 - 26 27 - 28 29 - 30 31 - 32	X			X					4	16		5404	5454	A16Z
33 - 34 35 - 36 37 - 38 39 - 40	X			X					5	20		5405	5455	A20Z
41 - 42 43 - 44 45 - 46 47 - 48	X			X					6	24		5406	5456	A24Z

SWITCHING ANGLE (REFERENCE AND PRICE LIST CODE)

Diagram with off position

30°	45°	60°
Cat. No. A1	A8	A6

Cat. No. B1	B8	B6

Diagram without off position

30°	45°	60°	90°
A1	A8	A6	A4

B1	B8	B6	B4

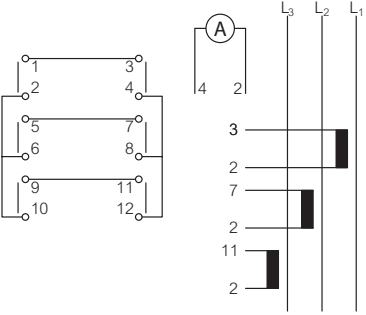
For more than 4 elements, please contact us.

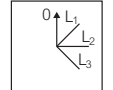
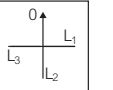
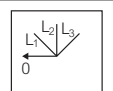
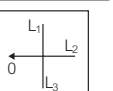
Separate cam switches

► INSTRUMENT SWITCHES: AMMETER

MEASUREMENT ON 3 CIRCUITS L_1 - L_2 - L_3 WITH 1 AMMETER AND 3 CTS WITH COMMON POINT

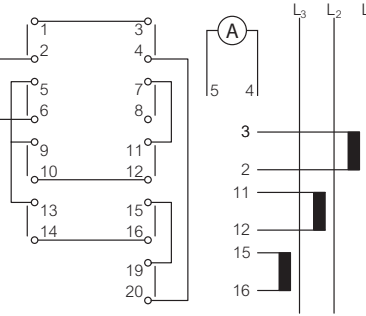
SWITCHING ANGLE

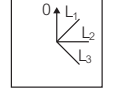
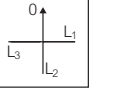
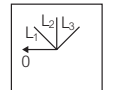
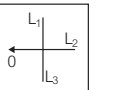
Contact Nos.	Positions 0: L_1 L_2 L_3 - - - -	No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
1-2 3-4 5-6 7-8 9-10 11-12	X X X X X X X X X X X X	6		8151	Ao6Z

45°	90°
	
Cat. No. A8	A4
	
Cat. No. B8	B4

MEASUREMENT ON 3 CIRCUITS L_1 - L_2 - L_3 WITH 1 AMMETER AND 3 CTS WITHOUT COMMON POINT

SWITCHING ANGLE

Contact Nos.	Positions 0: L_1 L_2 L_3 - - - -	No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
1-2 3-4 5-6 7-8 9-10 11-12 13-14 15-16 19-20	X X X X X X X X X X X X X X X X X X	9		8157	Ao9Z

45°	90°
	
Cat. No. A8	A4
	
Cat. No. B8	B4

Separate cam switches

► INSTRUMENT SWITCHES: AMMETER (CONTINUED)

MEASUREMENT ON 3 CIRCUITS L₁-L₂-L₃ WITH 1 AMMETER, DIRECT READING WITHOUT CT SWITCHING ANGLE

Contact Nos.	Positions o : L ₁ : L ₂ : L ₃ : - : - : - : -	No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16 17 - 18	X X X X X X X X X X X X X X X X X X	9		8164	A09Z

90°

Cat. No. A4

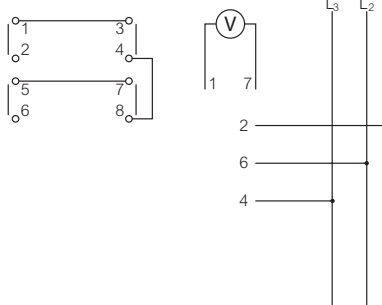
Cat. No. B4

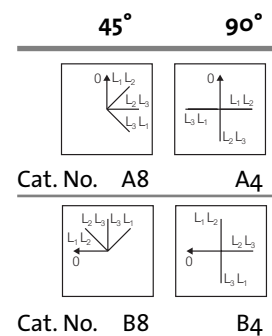
Separate cam switches

► INSTRUMENT SWITCHES: VOLTMETER

MEASUREMENT ON 3-PHASE CIRCUIT WITH 1 VOLTMETER, READING BETWEEN PHASES

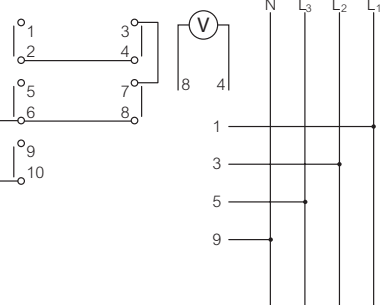
SWITCHING ANGLE

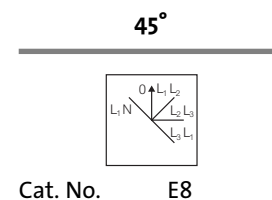
Contact Nos.	Positions						No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
	0	L ₁	L ₂	L ₃	-	-				
1-2		X		X			4		8351	Ao4Z
3-4			X		X					
5-6		X		X						
7-8				X						



MEASUREMENT ON 3-PHASE CIRCUIT WITH 1 VOLTMETER, READING BETWEEN PHASES + BETWEEN 1 PHASE AND NEUTRAL

SWITCHING ANGLE

Contact Nos.	Positions							No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
	0	L ₁	L ₂	L ₃	-	-	L ₁ N				
1-2		X		X			X	5		8356	Ao5Z
3-4			X		X						
5-6		X		X							
7-8				X							
9-10		X					X				

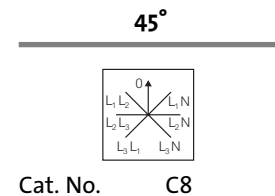


Separate cam switches

► INSTRUMENT SWITCHES: VOLTMETER (CONTINUED)

MEASUREMENT ON 3-PHASE CIRCUIT WITH 1 VOLTMETER, READING BETWEEN PHASES AND BETWEEN PHASES AND NEUTRAL SWITCHING ANGLE

Contact Nos.	Positions	No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
1-2 3-4 5-6 7-8 9-10 11-12	0 L₁ N L₂ N L₃ N - L₃ L₂ L₁ L₃ L₂ L₁	6		8357	Ao6Z

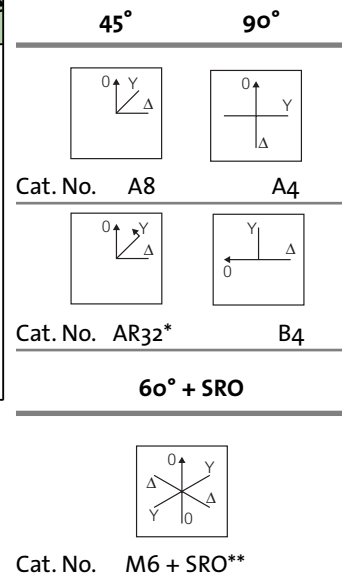


► 1 SPEED STARTER, 1 WAY - 3 PHASE MOTOR

Y Δ STARTER, ONE WAY, FOR SINGLE SPEED MOTOR

SWITCHING ANGLE

Contact Nos.	Positions	No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
1-2 3-4 5-6 7-8 9-10 11-12 13-14 15-16	0 Y Δ - - - - - - - - - - - -	8		9551	Ao8Z



* Y652, PR12
Y639, PR17 → 26
Y640, PR40 → 160

** Y649, PR12
Y642, PR17 → 26
Y643, PR40 → 160

Separate cam switches

► 3-PHASE, 1-SPEED MOTOR CONTROL SWITCHES (CONTINUED)

1 SPEED STARTER, FORWARD/REVERSE - 3 PHASE MOTOR

SWITCHING ANGLE

Contact Nos.	FWDP	Positions	REV	No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
1-2	X	X		10		9153	A10Z
3-4			X				
5-6			X				
7-8	X	X					
9-10			X				
11-12			X				
13-14	X	X					
15-16			X				
17-18	X	X					
19-20			X				

45°



Cat. No. C8

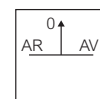
3 PHASE MOTOR SWITCH, FORWARD/REVERSE, 1 SPEED

*SWITCHING ANGLE

Contact Nos.	FWDP	Positions	REV	No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
1-2			X	5		9151	A05Z
3-4	X						
5-6	X						
7-8			X				
9-10	X		X				

45°

90°



Cat. No. C8

C4

* AR = REV
AV = FWD

Separate cam switches

3-PHASE, 2-SPEED MOTOR CONTROL SWITCHES

2 SPEEDS, 1 WAY WITHOUT OFF - 3 PHASE DALHANDER MOTOR (not suitable as starter)

* SWITCHING ANGLE

Contact Nos.	Positions	No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
1-2 3-4 5-6 7-8 9-10 11-12 13-14 15-16	Δ YY - - - - -	8		9354	Ao8Z

45°	90°
Cat. No. A8	A4
Cat. No. B8	B4
Cat. No. D4	M4

2 SPEEDS, 1 WAY WITH OFF - 3 PHASE DALHANDER MOTOR

* SWITCHING ANGLE

Contact Nos.	Positions	No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
1-2 3-4 5-6 7-8 9-10 11-12 13-14 15-16	o Δ YY - - - - -	8		9552	Ao8Z

45°	90°
Cat. No. A8	A4
Cat. No. B8	B4
Cat. No. C8	C4

* Δ = PV
YY = GV

Separate cam switches

3-PHASE, 2-SPEED MOTOR CONTROL SWITCHES (CONTINUED)

2 SPEEDS, FORWARD/REVERSE - 3 PHASE DALHANDER MOTOR

* SWITCHING ANGLE

Contact Nos.	FWD Positions	REV	No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
1-2	X	X	12		9154	A12Z
3-4		X				
5-6		X				
7-8	X					
9-10	X					
11-12	X					
13-14	X					
15-16	X					
17-18	X					
19-20	X					
21-22	X					
23-24	X					

45°



Cat. No. C8

* Δ = PV
YY = GV

STARTER, 2 SPEEDS, 1 WAY - 2 COILS ΔA, ΔB OPEN

* SWITCHING ANGLE

Contact Nos.	Positions	No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
1-2	X	8		9553	Ao8Z
3-4	X				
5-6	X				
7-8	X				
9-10	X				
11-12	X				
13-14	X				

45°



Cat. No. A8

90°



Cat. No. A4



Cat. No. B8



Cat. No. B4



Cat. No. C8



Cat. No. C4

* PV = LS
GV = HS

Separate cam switches

► 3-PHASE, 2-SPEED MOTOR CONTROL SWITCHES (CONTINUED)

STARTER, FORWARD/REVERSE, FOR 2 SPEED MOTOR, 2 COILS ΔA, ΔB OPEN

* SWITCHING ANGLE

Contact Nos.	FWD Positions O LS HS - - HS LS	REV HS LS	No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
1-2	X X		12		9156	A12Z
3-4		X X				
5-6		X X				
7-8	X X					
9-10	X	X				
11-12	X	X				
13-14	X	X				
15-16	X	X				
17-18	X	X				
19-20	X	X				
21-22	X	X				
23-24	X	X				

45°



Cat. No. C8

STARTER, FORWARD/REVERSE, FOR 2 SPEED MOTOR, 2 COILS YA, YB OPEN

* SWITCHING ANGLE

Contact Nos.	FWD Positions O LS HS - - HS LS	REV HS LS	No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
1-2	X X		10		9163	A10Z
3-4		X X				
5-6		X X				
7-8	X X					
9-10	X	X				
11-12	X	X				
13-14	X	X				
15-16	X	X				
17-18	X	X				
19-20	X	X				

45°



Cat. No. C8

For function
1 way,
see page 210,
ref. diagram 2203,
diagram price list code
Ao6Z

* AR = REV
AV = FWD

Separate cam switches

► MOTOR CONTROL SWITCHES - D.C. CURRENT OR SINGLE PHASE

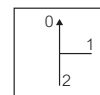
POLARITY OR PHASE CHANGE-OVER WITH OFF POSITION (D.C. current)

SWITCHING ANGLE

Contact Nos.	0	1	2	-	-	-	-	No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
1-2		X						4		9051	Ao4Z
3-4			X								
5-6			X								
7-8		X									

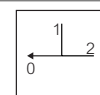
45°

90°



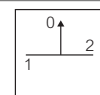
Cat. No. A8

A4



Cat. No. B8

B4



Cat. No. C8

C4

FORWARD/REVERSE SWITCH WITH OFF POSITION FOR 1-SPEED SINGLE PHASE MOTOR WITH PERMANENT CONDENSER (4 WIRES)

SWITCHING ANGLE

Contact Nos.	0	FWD	-	-	-	REV	No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
1-2		X				X	6		9057C8	Ao6Z
3-4		X				X				
5-6		X				X				
7-8						X				
9-10						X				
11-12	X									

45°



Cat. No. C8

* AR = REV
AV = FWD

Separate cam switches

SWITCHES FOR COUPLING 2 RESISTORS

COUPLING OF 2 RESISTORS WITH COMMON POINT, 2-POLE SWITCHING

SWITCHING ANGLE

Contact Nos.	o	1	2	3	-	-	-	-	No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
1-2		X	X						4		7202	Ao4Z
3-4				X								
5-6			X	X								
7-8		X										
										Pos. a b o off off 1 R₁ R₁+R₂ series 2 R₂ R₂ 3 R₁+R₂ series R₁		

45°	90°
Cat. No. A8	A4
Cat. No. B8	B4

COUPLING OF 2 RESISTORS WITH COMMON POINT, 2-POLE SWITCHING

SWITCHING ANGLE

Contact Nos.	o	1	2	3	-	-	-	-	No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
1-2		X	X	X					4		7204	Ao4Z
3-4				X								
5-6			X	X								
7-8		X										
										Pos. a b o off off 1 R₁+R₂ series R₁ 2 R₁ R₁+R₂ series 3 R₁+R₂ // R₂		

45°	90°
Cat. No. A8	A4
Cat. No. B8	B4

FUNCTION: COUPLING OF 2 RESISTORS WITHOUT COMMON POINT, 2-POLE SWITCHING

SWITCHING ANGLE

Contact Nos.	o	1	2	3	-	-	-	-	No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
1-2		X		X					4		7207	Ao4Z
3-4			X	X								
5-6		X		X								
7-8			X	X								
										Pos. Function o off 1 R₁ 2 R₂ 3 R₁+R₂ //		

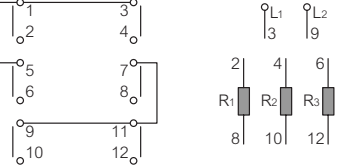
45°	90°
Cat. No. A8	A4
Cat. No. B8	B4

Separate cam switches

SWITCHES FOR COUPLING 3 RESISTORS

COUPLING OF 3 RESISTORS WITHOUT COMMON POINT, 2-POLE SWITCHING

SWITCHING ANGLE

Contact Nos.	Positions							No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
	o	1	2	3	-	-	-				
1-2		X	X	X				6		7211	Ao6Z
3-4			X	X							
5-6			X	X							
7-8		X	X	X							
9-10			X	X							
11-12				X							
Pos. Function											
o off											
1 R ₁											
2 R ₁ +R ₂ //											
3 R ₁ +R ₂ +R ₃ //											

45°

90°



Cat. No. A8

A4



Cat. No. B8

B4

COUPLING OF 3 RESISTORS, 3-PHASE NETWORK, TOTAL CUT-OFF AT OFF

SWITCHING ANGLE

Contact Nos.	Positions							No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code										
	0	1	2	3	-	-	-														
1-2		X	X	X				4		7607	Ao4Z										
3-4				X																	
5-6		X	X	X																	
7-8			X	X																	
									<table><thead><tr><th>Pos.</th><th>Function</th></tr></thead><tbody><tr><td>0</td><td>off</td></tr><tr><td>1</td><td>R₁ (L₁/L₂)</td></tr><tr><td>2</td><td>R₁ (L₁/L₂), R₂ (L₂/L₃)</td></tr><tr><td>3</td><td>R₁, R₂, R₃ in ?</td></tr></tbody></table>	Pos.	Function	0	off	1	R ₁ (L ₁ /L ₂)	2	R ₁ (L ₁ /L ₂), R ₂ (L ₂ /L ₃)	3	R ₁ , R ₂ , R ₃ in ?		
Pos.	Function																				
0	off																				
1	R ₁ (L ₁ /L ₂)																				
2	R ₁ (L ₁ /L ₂), R ₂ (L ₂ /L ₃)																				
3	R ₁ , R ₂ , R ₃ in ?																				

45°

90°



Cat. No. A8

A4



Cat. No. B8

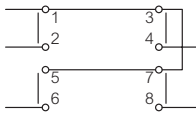
B4

Separate cam switches

CODING SWITCHES

CODING SWITCH WITH OFF

SWITCHING ANGLE

Contact Nos.	0	1	2	3	4	5	6	7	8	9	10	11	No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
1-2		X		X		X		X		X		X	4		6501	Ao4Z
3-4			X	X			X	X			X	X				
5-6					X	X			X	X						
7-8							X	X			X	X				

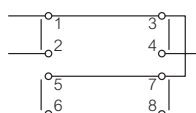
30°



Cat. No. A1

CODING SWITCH WITHOUT OFF

SWITCHING ANGLE

Contact Nos.	1	2	3	4	5	6	7	8	9	10	11	12	No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
1-2	X		X		X		X		X		X		4		6502	Ao4Z
3-4		X	X			X	X			X	X					
5-6				X	X							X				
7-8						X	X				X	X				

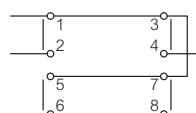
30°



Cat. No. A1

CODING SWITCH, BCD CODE, 0 to 9 (with complete rotation possible)

SWITCHING ANGLE

Contact Nos.	0	1	2	3	4	5	6	7	8	9	-	-	No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
1-2		X		X		X		X		X			4		6503	Ao4Z
3-4			X	X			X	X								
5-6					X	X										
7-8							X	X			X	X				

30°



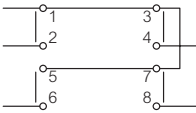
Cat. No. A1

Separate cam switches

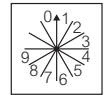
► CODING SWITCHES (CONTINUED)

COMPLEMENTARY BCD CODE, 0 TO 9 (with complete rotation possible)

SWITCHING ANGLE

Contact Nos.	0	1	2	3	4	5	6	7	8	9	-	-	No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
1 - 2	X		X		X		X		X				4		6504	Ao4Z
3 - 4	X-X				X-X				X-X							
5 - 6	X		X						X-X							
7 - 8	X						X									

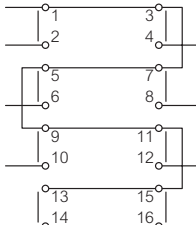
30°



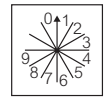
Cat. No. A1

BCD CODE, 0 TO 9 + COMPLEMENTARY BCD CODE (with complete rotation possible)

SWITCHING ANGLE

Contact Nos.	0	1	2	3	4	5	6	7	8	9	-	-	No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
1 - 2	X		X		X		X		X				8		6505	Ao8Z
3 - 4			X-X				X-X									
5 - 6					X		X									
7 - 8									X-X							
9 - 10	X		X		X		X		X							
11 - 12	X-X				X-X				X-X							
13 - 14	X		X						X-X							
15 - 16	X						X									

30°



Cat. No. A1

Separate cam switches

To order your cam switch, it is essential to follow the 5-step procedure (see presentation on p. 126)
Mini cam switches are only available in standard formats.

► III - CHOICE OF MOUNTING

	Image	Page
► 2-screw panel mount		250
Intervals 30 or 50		250
Intervals 35 or 36, 48, 54, 68		250
► Single hole mounting Ø 22		251
With plate frame and handle		251
With key		251
with selector switch		252
► Single hole mounting Ø 30		253
One-piece with handle		253
One-piece with key		253
► Rear mounting		254
Intervals 48 or 68		254
On DIN rail		254
► Dimensions		255
Front and rear mounting (E and S)		255
Front mounting (EZ)		257
Single hole mounting Ø 22 (E N48MD50)		259
Single hole mounting Ø 22 (E C21XXXX)		259
Single hole mounting Ø 30 (E 30PN)		260
Single hole mounting Ø 30 (E 30C)		261
Rear mounting on DIN rail (SX)		262

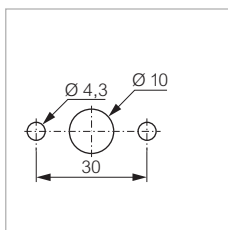
Separate cam switches

Dimensions (p. 255)

FRONT MOUNTING

2 SCREWS - 30 OR 50 MM INTERVAL

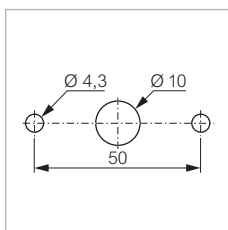
Cat. No.



For PR 12 to PR 160

Price list code

PR 12	-	E
PR 17	-	E
PR 21	-	E
PR 26	-	E

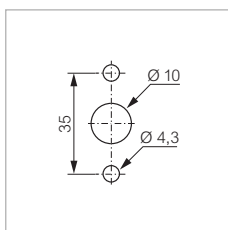


PR 40	-	E
PR 63	-	E
PR 125	-	E
PR 160	-	E

For foolproof shaft profile, add D to the type of mounting code (ED)

2 SCREWS - 35 MM INTERVAL OR □ 36, 48, 54 OR 68

Cat. No.

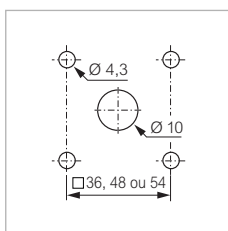
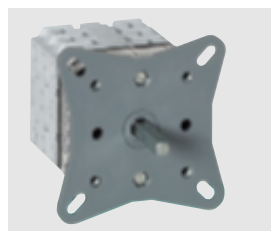


For PR 12 to PR 160

Price list code

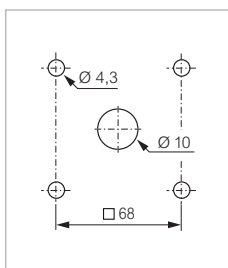
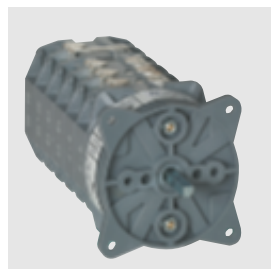
35 mm interval

PR 12	Y533	EZ35
PR 17	Y523	EZ35
PR 21	Y524	EZ35
PR 26	Y525	EZ35



□ 36, 48, or 54 interval (see end of code)

PR 12	Y654	EZ36
PR 17	Y523	EZ36 or EZ48
PR 21	Y524	EZ36 or EZ48
PR 26	Y525	EZ36 or EZ54



□ 68 mm interval

PR 40	Y527	EZ68
PR 63	Y528	EZ68
PR 125	Y531	EZ68
PR 160	Y532	EZ68

For foolproof shaft profile, add D to the type of mounting code (eg: EZD35)

Separate cam switches

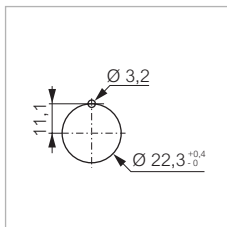
Dimensions (p. 259)

► ONE-HOLE MOUNTING Ø 22

WITH PLATE, FRAME AND HANDLE

For PR 12

Cat. No.



Max. number of contacts accepted: 12

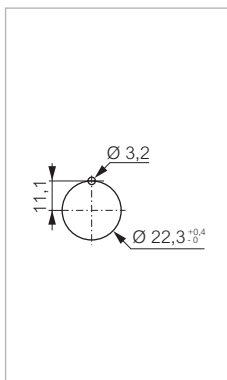
Price list code

☐ 48 legend plate with handle	N48MD50	N48MD50
☐ 48 legend plate with standard handle and aluminium legend plate	N480MD50	N480MD50

SELECTOR SWITCH WITH KEY

For PR 12

Cat. No.



Supplied with 2 keys n°455
Max. number of contacts accepted: 8
Legend plate can be used (p. 281)

Price list code

Key lock 90/45° for □ 5 mm shaft

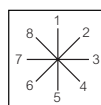
Key free in:

1-3-5-7	C21RC00	C21RC00
3-7	C21RD00	C21RD00
1-5	C21RE00	C21RE00
2-4-6-8	C21RF00	C21RF00
2-6	C21RG00	C21RG00
4-8	C21RH00	C21RH00



☐ 48 plate, key free in:

1-3-5-7	C21RC48	C21RC48
3-7	C21RD48	C21RD48
1-5	C21RE48	C21RE48
2-4-6-8	C21RF48	C21RF48
2-6	C21RG48	C21RG48
4-8	C21RH48	C21RH48



Key lock 60/30° for □ 5 mm shaft

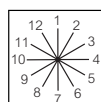
Key free in:

1-3-5-7-9-11	C21RJ00	C21RJ00
1-7	C21RK00	C21RK00
3-9	C21RQ00	C21RQ00
5-11	C21RR00	C21RR00
2-4-6-8-10-12	C21RL00	C21RL00
4-10	C21RM00	C21RM00
2-8	C21RS00	C21RS00
6-12	C21RT00	C21RT00



☐ 48 plate, key free in:

1-3-5-7-9-11	C21RJ48	C21RJ48
1-7	C21RK48	C21RK48
3-9	C21RQ48	C21RQ48
5-11	C21RR48	C21RR48
2-4-6-8-10-12	C21RL48	C21RL48
4-10	C21RM48	C21RM48
2-8	C21RS48	C21RS48
6-12	C21RT48	C21RT48



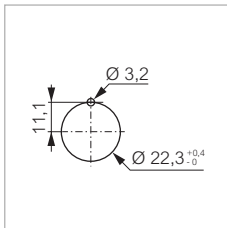
- For other bezels, replace 21 in the reference and the price list code with:

- 22 - black plastic
- 23 - grey plastic
- 24 - brilliant chromed brass
- 25 - brilliant chromed plastic

Separate cam switches

Dimensions (p. 259)

► ONE-HOLE MOUNTING Ø 22 (CONTINUED)

WITH SELECTOR SWITCH		For PR 12	Cat. No.	
		Max. number of contacts accepted: 12	Price list code	
Handle				
● Red ● Green ● Black ● Grey		C21RA01 C21RA02 C21RA03 C21RA08	C21RA01 C21RA02 C21RA03 C21RA08	
Long handle				
● Red ● Green ● Black ● Grey	C21RB01 C21RB02 C21RB03 C21RB08	C21RB01 C21RB02 C21RB03 C21RB08		

- For other bezels, replace 21 in the reference and the price list code with:

22 - black plastic

23 - grey plastic

24 - brilliant chromed brass

25 - brilliant chromed plastic

26 - matt anodised aluminium

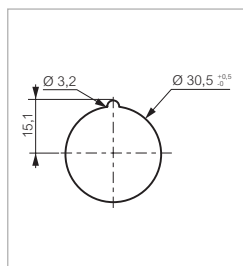
Separate cam switches

Dimensions (p. 260-261)

► SINGLE HOLE MOUNTING Ø 30

ONE-PIECE SELECTOR SWITCH

Cat. No.



The block consists of:

- 1 head and a plastic bezel enabling single hole Ø 30 mounting
 - a grey/black small handle
- Max. number of contacts accepted: 24

Price list code

PR 17	302PN	30PN
PR 21	303PN	30PN
PR 26	304PN	30PN

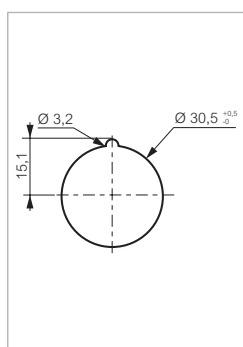
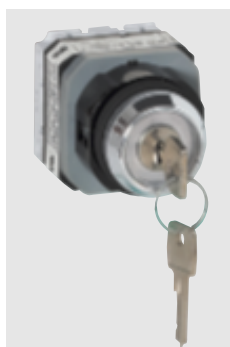
Extra charge for chrome brass bezel (instead of plastic)

Y644⁽¹⁾

TO BE SPECIFIED

⁽¹⁾ To be added at the end of the reference and price list code

ONE-PIECE KEY OPERATED



The block consists of:

- 1 head and a plastic bezel enabling single hole Ø 30 mounting
- 2 keys no. 455 or 1424 A to be stated on order

The key acts as an operating handle

The key is always captive:

in positions 2-4-6-8

The key is free:

in positions 1-3-5-7 (form p. 287)

The key can be captive:

in positions 1 + 5 or 3 + 7

The serrated edge of the key acts as an indicator of the switch position

Max. number of contacts accepted: 8

Price list code

PR 17		30C2	30C
PR 21		30C3	30C
PR 26		30C4	30C

Extra charges

Key with plastic grip (recommended for more than 4 contacts)

Y646

30CM

Chrome brass bezel

Y644⁽¹⁾

TO BE SPECIFIED

Other key (other than 455 or 1424)

Y645⁽¹⁾

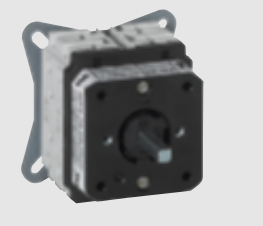
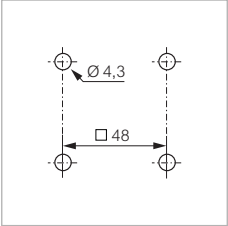
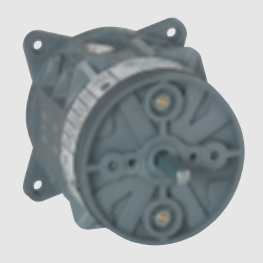
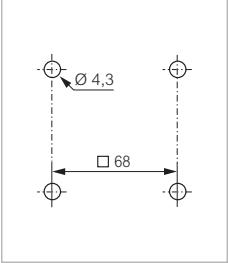
TO BE SPECIFIED

⁽¹⁾ To be added at the end of the reference and price list code

Separate cam switches

Dimensions (p. 255)

REAR MOUNTING

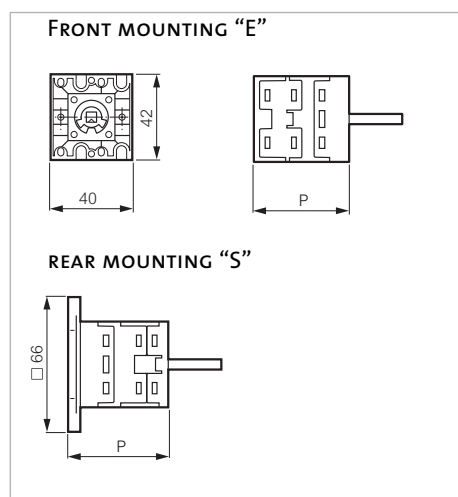
2 SCREWS - INTERVAL □ 48 OR 68		Cat. No.	
		For PR 12 to PR 160	Price list code
		PR 12	Y513 S
		PR 17	Y503 S
		PR 21	Y504 S
		PR 26	Y505 S
		PR 40	Y507 S
		PR 63	Y508 S
		PR 125	Y511 S
		PR 160	Y517 S

ON DIN RAIL		Cat. No.	
	For PR 12 to PR 26	Price list code	
	Max. number of contacts accepted: 8		
	PR 12	Y553	SX
	PR 17	Y543	SX
	PR 21	Y544	SX
	PR 26	Y545	SX

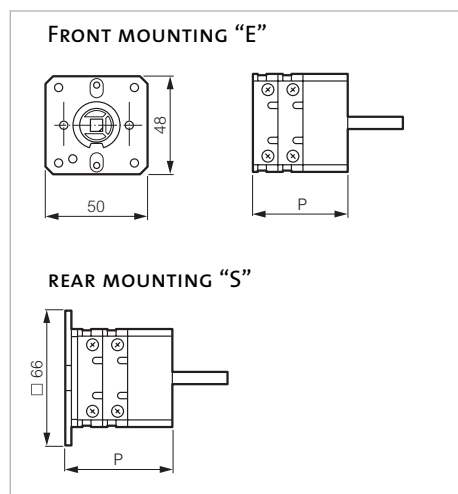
Separate cam switches

► DIMENSIONS

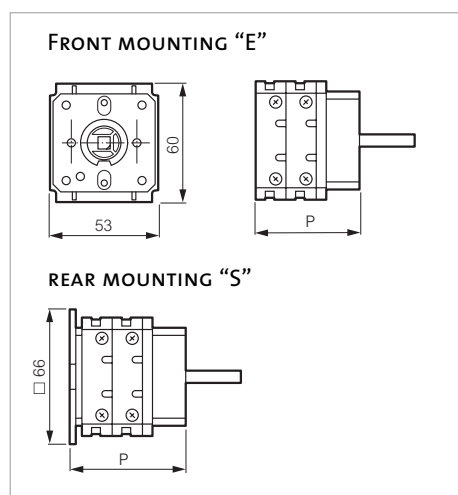
FRONT AND REAR MOUNTING (E AND S)



PR 12	No. of contacts	Front mounting P*	Rear mounting P*
	1-2	36	42
	3-4	46	52
	5-6	56	62
	7-8	66	72
	9-10	76	82
	11-12	86	92
	13-14	122	128
	15-16	132	138
	17-18	142	148
	19-20	152	158
	21-22	162	168
	23-24	172	178



PR 17/21	No. of contacts	Front mounting P*	Rear mounting P*
	1-2	33	39
	3-4	45	51
	5-6	57	63
	7-8	69	75
	9-10	81	87
	11-12	93	99
	13-14	105	111
	15-16	117	123
	17-18	129	135
	19-20	141	147
	21-22	153	159
	23-24	165	171



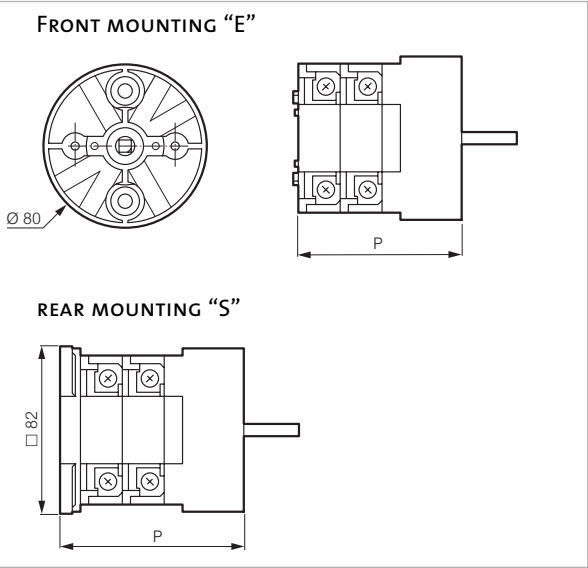
PR 26	No. of contacts	Front mounting P*	Rear mounting P*
	1-2	36	42
	3-4	51	57
	5-6	66	72
	7-8	81	87
	9-10	96	102
	11-12	111	117
	13-14	126	132
	15-16	141	147
	17-18	156	162
	19-20	171	177
	21-22	186	192
	23-24	201	207

* P = Depth

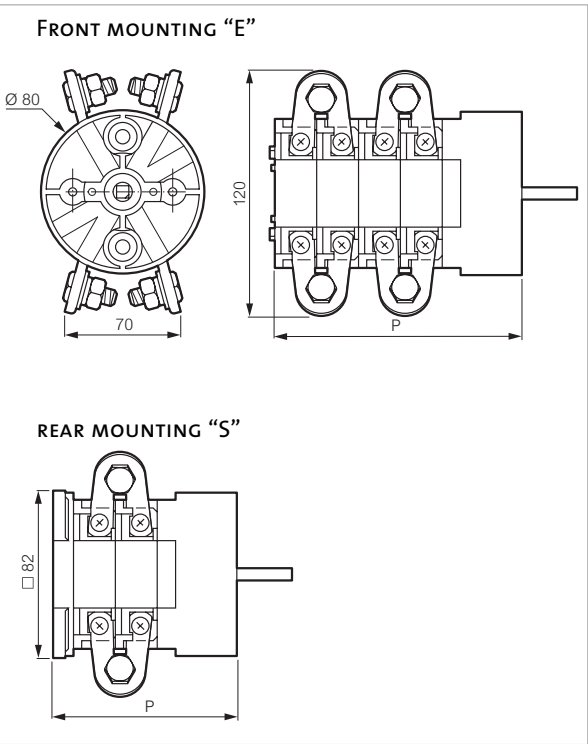
Separate cam switches

► DIMENSIONS (CONTINUED)

FRONT AND REAR MOUNTING (E AND S)



PR 40/63	No. of contacts	Front mounting P*	Rear mounting P*
	1-2	60	70
	3-4	80	90
	5-6	100	110
	7-8	120	130
	9-10	140	150
	11-12	160	170
	13-14	180	190
	15-16	200	210
	17-18	220	230
	19-20	240	250
	21-22	260	270
	23-24	280	290



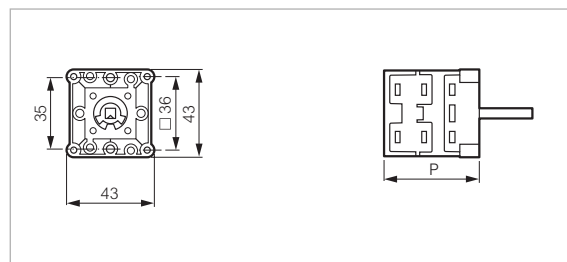
PR 125/160	No. of contacts	Front mounting P*	Rear mounting P*
	1-2	80	90
	3-4	120	130
	5-6	160	170
	7-8	200	210
	9-10	240	250
	11-12	280	290

* P = Depth

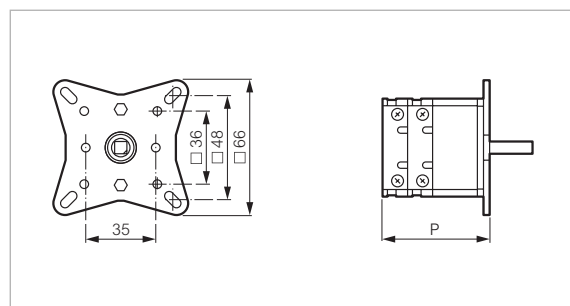
Separate cam switches

► DIMENSIONS (CONTINUED)

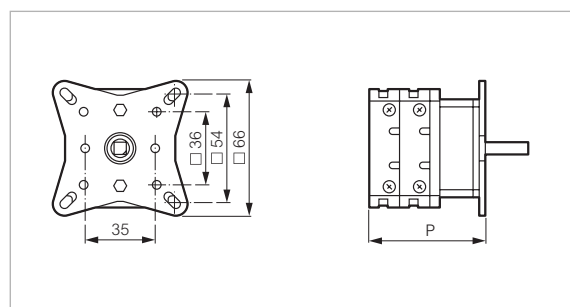
FRONT MOUNTING (EZ)



PR 12	No. of contacts	P*
	1-2	36
	3-4	46
	5-6	56
	7-8	66
	9-10	76
	11-12	86
	13-14	122
	15-16	132
	17-18	142
	19-20	152
	21-22	162
	23-24	172



PR 17/21	No. of contacts	P*
	1-2	39
	3-4	51
	5-6	63
	7-8	75
	9-10	87
	11-12	99
	13-14	111
	15-16	123
	17-18	135
	19-20	147
	21-22	159
	23-24	171



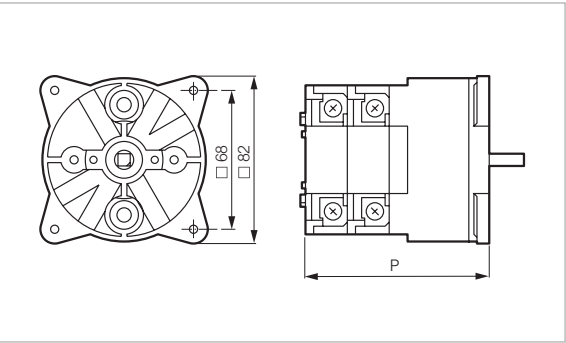
PR 26	No. of contacts	P*
	1-2	42
	3-4	57
	5-6	72
	7-8	87
	9-10	102
	11-12	117
	13-14	132
	15-16	147
	17-18	162
	19-20	177
	21-22	192
	23-24	207

* P = Depth

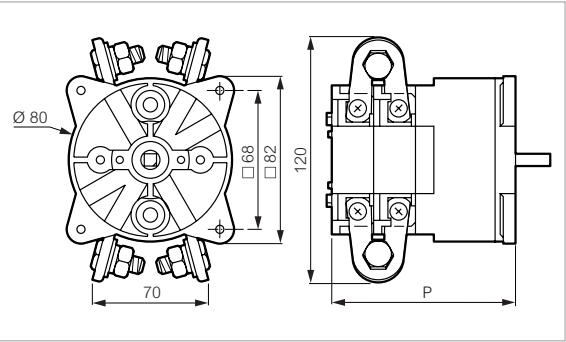
Separate cam switches

► DIMENSIONS (CONTINUED)

FRONT MOUNTING (EZ)



	No. of contacts	P*
PR 40/63	1-2	60
	3-4	80
	5-6	100
	7-8	120
	9-10	140
	11-12	160
	13-14	180
	15-16	200
	17-18	220
	19-20	240
	21-22	260
	23-24	280



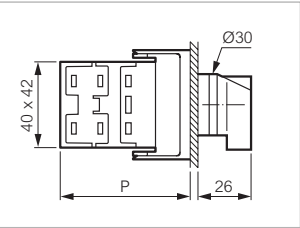
PR 125/160	1-2	80
	3-4	120
	5-6	160
	7-8	200
	9-10	240
	11-12	280

* P = Depth

Separate cam switches

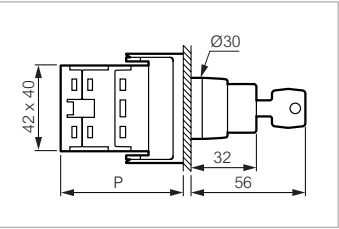
► DIMENSIONS (CONTINUED)

SINGLE HOLE MOUNTING Ø 22 (E N48MD50)

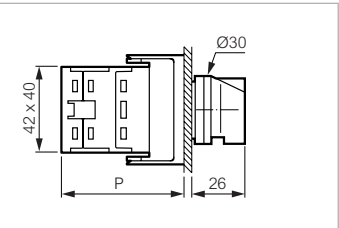


PR 12	No. of contacts	P*
	1-2	51
	3-4	61
	5-6	71
	7-8	81
	9-10	91
	11-12	101

SINGLE HOLE MOUNTING Ø 22 (E C21XXXX)



PR 12	No. of contacts	P*
With key		
	1-2	51
	3-4	61
	5-6	71
	7-8	81



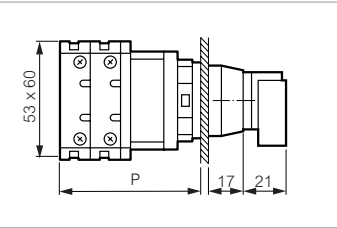
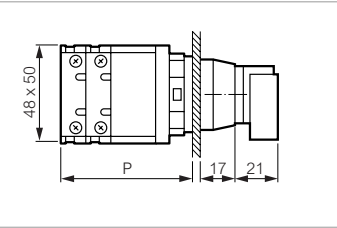
With handle/long handle		
	1-2	51
	3-4	61
	5-6	71
	7-8	81
	9-10	91
	11-12	101

* P = Depth

Separate cam switches

► DIMENSIONS (CONTINUED)

SINGLE HOLE MOUNTING Ø 30 (E 30PN)



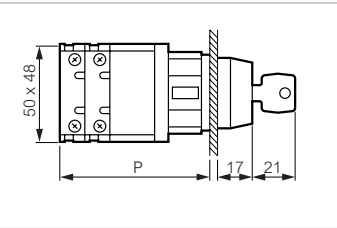
* P = Depth

	No. of contacts	p*
PR 17/21	1-2	47.5
	3-4	59.5
	5-6	71.5
	7-8	83.5
	9-10	95.5
	11-12	107.5
	13-14	119.5
	15-16	131.5
	17-18	143.5
	19-20	155.5
	21-22	167.5
	23-24	179.5
PR 26	1-2	50.5
	3-4	65.5
	5-6	80.5
	7-8	95.5
	9-10	110.5
	11-12	125.5
	13-14	140.5
	15-16	155.5
	17-18	170.5
	19-20	185.5
	21-22	200.5
	23-24	215.5

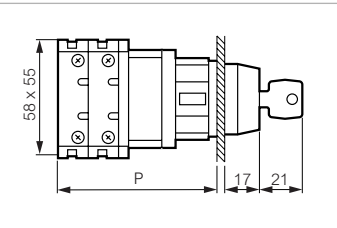
Separate cam switches

► DIMENSIONS (CONTINUED)

SINGLE HOLE MOUNTING Ø 30 (E 30C)



PR 17/21	No. of contacts	P*
	1-2	56.5
	3-4	68.5
	5-6	80.5
	7-8	92.5
	9-10	104.5
	11-12	116.5
	13-14	128.5
	15-16	140.5
	17-18	152.5
	19-20	164.5
	21-22	176.5
	23-24	188.5



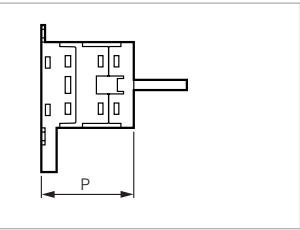
* P = Depth

PR 26	No. of contacts	P*
	1-2	59.5
	3-4	74.5
	5-6	89.5
	7-8	104.5
	9-10	119.5
	11-12	134.5
	13-14	149.5
	15-16	164.5
	17-18	179.5
	19-20	194.5
	21-22	209.5
	23-24	224.5

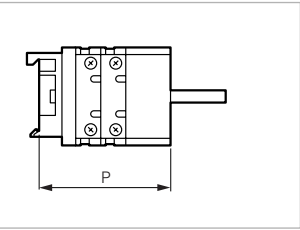
Separate cam switches

► DIMENSIONS (CONTINUED)

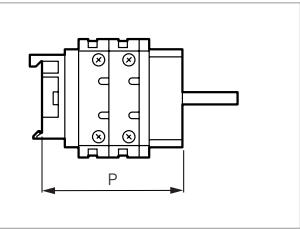
REAR MOUNTING ON DIN RAIL (SX)



	No. of contacts	P*
PR 12	1-2	36
	3-4	46
	5-6	56
	7-8	66



PR 17/21	1-2	49
	3-4	61
	5-6	73
	7-8	85



PR 26	1-2	52
	3-4	67
	5-6	82
	7-8	97

* P = Depth

Separate cam switches

To order your cam switch, it is essential to follow the 5-step procedure (see presentation on p. 126)
Mini cam switches are only available in standard formats.

▶ IV - CHOICE OF PRESENTATION

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Separate cam switches

Standard engraving (p. 286)

► PLATE, FRAME AND HANDLE

Type

Cat. No.



For PR 12 to PR 160

Aluminium plate + grey/black handle/long handle
Blank label
The price for the presentation includes engraving
of the usual texts and symbols
(engraving to be specified)

Price list code

PR 12 to PR 26

- **48 plate and frame**
- + small handle
- + duty label + small handle
- + small lever
- + Duty label + small lever

Q48PN	Q48PN50
Q480PN	Q480PN50
Q48PC	Q48PC50
Q480PC	Q480PC50

- **64 plate and frame**
- + small handle
- + duty label + small handle
- + small lever
- + Duty label + small lever

Q64PN	Q64PN50
Q640PN	Q640PN50
Q64PC	Q64PC50
Q640PC	Q640PC50

PR 40 to PR 160

- **64 plate and frame**
- + medium handle
- + duty label + medium handle
- + small lever
- + small lever

Q64MN	Q64MN60
Q640MN	Q640MN60
Q64PC	Q64PC60
Q640PC	Q640PC60

- **72 plate and frame**
- + medium handle
- + duty label + medium handle
- + small lever
- + Duty label + small lever

Q72MN	Q72MN60
Q720MN	Q720MN60
Q72PC	Q72PC60
Q720PC	Q720PC60

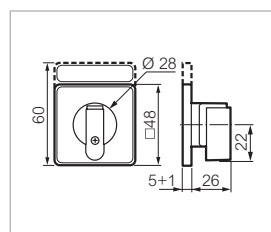
- **96 plate and frame**
- + large handle
- + large lever

Q96GN	Q96GN60
Q96GC	Q96GC60

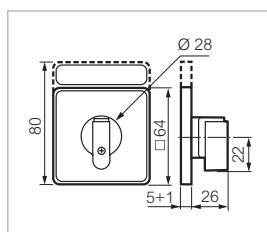
Extra charges

Standard engraving
Customised engraving

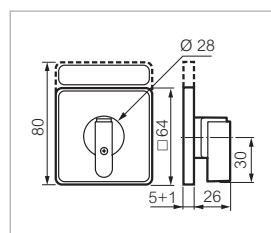
Y000
Y100



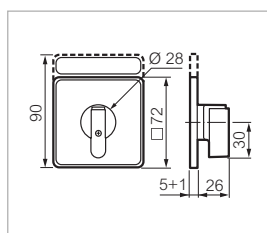
Q48PN



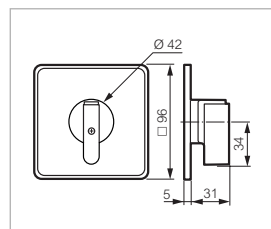
Q64PN



Q64MN



Q72MN



Q96GN

Separate cam switches

Standard engraving (p. 286)

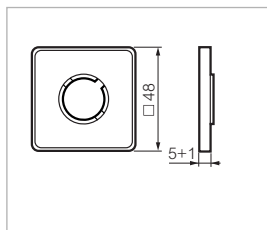
► PLATE AND FRAME

Other combinations

Cat. No.



Q61



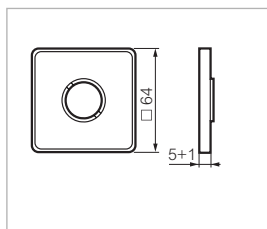
□ 48

For PR 12 to PR 160

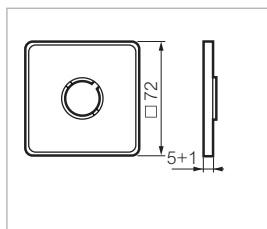
For complete presentation, add handle
The price for the presentation includes engraving of standard texts and symbols (p. 286)
Other engraving (form p. 287)
Duty label with aluminium plate



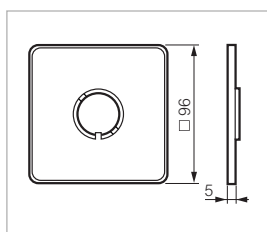
Q780



□ 64



□ 72



□ 96

□ 48 plate (PR 12 to PR 26)

- Red
- Red with duty label
- Black
- Black with duty label
- Yellow
- Yellow with duty label
- Aluminium
- Aluminium with duty label

□ 64 plate (PR 12 to PR 160)

- Red
- Red with duty label
- Black
- Black with duty label
- Yellow
- Yellow with duty label
- Aluminium
- Aluminium with duty label

□ 72 plate (PR 12 to PR 160)

- Red
- Red with duty label
- Black
- Black with duty label
- Yellow
- Yellow with duty label
- Aluminium
- Aluminium with duty label

□ 96 plate (PR 40 to PR 160)

- Red
- Black
- Yellow
- Aluminium

Price list code

Q41	Q41
Q410	Q410
Q43	Q43
Q430	Q430
Q45	Q45
Q450	Q450
Q48	Q48
Q480	Q480
Q61	Q61
Q610	Q610
Q63	Q63
Q630	Q630
Q65	Q65
Q650	Q650
Q64	Q64
Q640	Q640
Q71	Q71
Q710	Q710
Q73	Q73
Q730	Q730
Q75	Q75
Q750	Q750
Q72	Q72
Q720	Q720
Q91	Q91
Q93	Q93
Q95	Q95
Q96	Q96

Separate cam switches

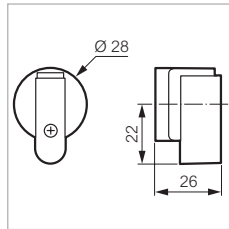
► HANDLES

Other combinations

Cat. No.



MN61



PN

For PR 12 to PR 160

For complete products, add plate + handle

Price list code

PR 12 to PR 26

- Red - small handle
- Black - small handle
- Red - medium handle
- Black - medium handle
- Red - large handle
- Black - large handle
- Red - small lever
- Black - small lever

PN51
PN53
MN51
MN53
GN51
GN53
PC51
PC53

PN51
PN53
MN51
MN53
GN51
GN53
PC51
PC53

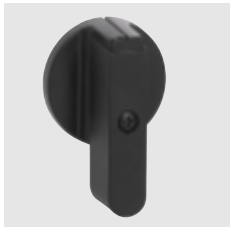
PR 40 to PR 160

- Red - medium handle
- Black - medium handle
- Red - large handle
- Black - large handle
- Red - small lever
- Black - small lever
- Red - large lever
- Black - large lever

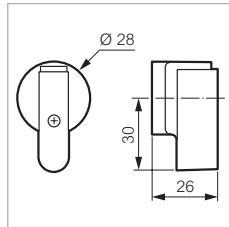
MN61
MN63
GN61
GN63
PC61
PC63
GC61
GC63

MN61
MN63
GN61
GN63
PC61
PC63
GC61
GC63

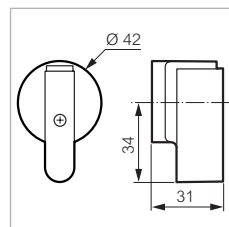
Version with foolproofing and other colours (see p. 279/280)



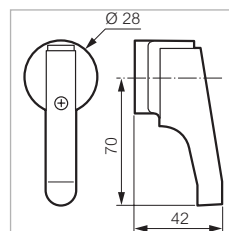
GN63



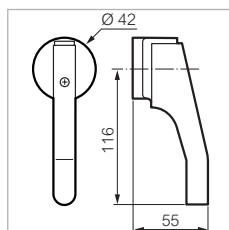
MN



GN



PC



GC

Separate cam switches

Standard engraving (p. 286)

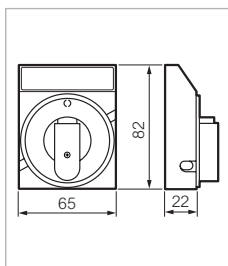
► PADLOCKABLE PRESENTATION

Other combinations

Cat. No.



J48PN51



For PR 12 to PR 160

Yellow presentation, red handle
for up to 4 padlocks

Price list code

PR 12 to PR 26 - Mounting 30 mm interval

small frame □ 48,

Without engraving
With engraving (state requirement)
With engraving (Inter principal)
With engraving (Hauptschalter)
With engraving (Main switch)

J48PN51
J480PN51
J481PN51
J482PN51
J483PN51

J48PN51
J480PN51
J481PN51
J482PN51
J483PN51

Medium frame □ 72,

Without engraving
With engraving (state requirement)
With engraving (Inter principal)
With engraving (Hauptschalter)
With engraving (Main switch)

J72MN51
J720MN51
J721MN51
J722MN51
J723MN51

J72MN51
J720MN51
J721MN51
J722MN51
J723MN51

PR 40 to PR 160 - Mounting 50 mm interval

Medium frame □ 72,
medium red handle

Without engraving
With engraving (state requirement)
With engraving (Inter principal)
With engraving (Hauptschalter)
With engraving (Main switch)

J72MN61
J720MN61
J721MN61
J722MN61
J723MN61

J72MN61
J720MN61
J721MN61
J722MN61
J723MN61

Large frame □ 96,

With engraving (state requirement)
With engraving (Inter principal)
With engraving (Hauptschalter)
With engraving (Main switch)

J960GN61
J961GN61
J962GN61
J963GN61

J960GN61
J961GN61
J962GN61
J963GN61

Extra charges

Standard engraving
Customised engraving
IP 65 version

Y000
Y100
Y661

If the switching angle is different from 60°, replace J with H

- For version with grey plate, grey/black handle,
replace the letter J with the letter V in the
reference and delete the last 2 two digits (51 or 61)

- If the switching angle is different from 60°
replace V with G in the reference

- For difference mounting intervals, the addition of an
adaptor plate allows intervals EZ 35, EZ 36/48/68 (see
p. 257/258)

The reference then becomes:

J44/440 for □ 48

J74/740 for □ 72

J940 for □ 96

Separate cam switches

Standard engraving (p. 286)

► PADLOCKABLE PRESENTATION (CONTINUED)

With clutch drive and without door interlock

Cat. No.



R5J48PN61

For PR 12 to PR 160

Yellow presentation, red handle
for up to 4 padlocks

Rear mounting

Price list code

PR 12 to PR 26

Small frame □ 48,
Front mounting possible
(A, C or D see p. 269)

Without engraving
With engraving (state requirement)
With engraving (Inter principal)
With engraving (Hauptschalter)
With engraving (Main switch)

R5J48PN61
R5J480PN61
R5J481PN61
R5J482PN61
R5J483PN61

R5J48PN61
R5J480PN61
R5J481PN61
R5J482PN61
R5J483PN61

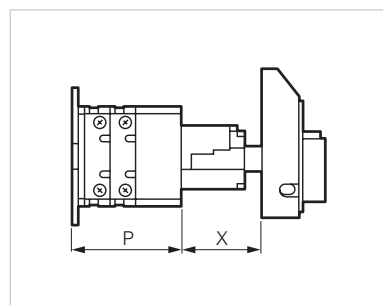
Medium frame □ 72,
Front mounting possible
(A, C, D or E see p. 269)

Without engraving
With engraving (state requirement)
With engraving (Inter principal)
With engraving (Hauptschalter)
With engraving (Main switch)

R5J72MN61
R5J720MN61
R5J721MN61
R5J722MN61
R5J723MN61

R5J72MN61
R5J720MN61
R5J721MN61
R5J722MN61
R5J723MN61

If the switching angle is different from 60°:
Replace J with H

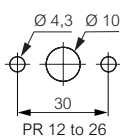
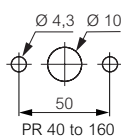
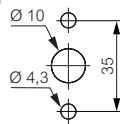
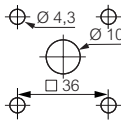
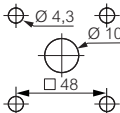
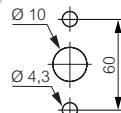
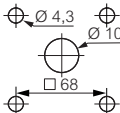


S mounting method (see p. 255)
X = 45 to 65 mm (+ 31, 62 or 93 mm
with extension piece)

Separate cam switches

Standard engraving (p. 286)

► PADLOCKABLE PRESENTATION (CONTINUED)

With clutch drive and without door interlock		Cat. No.	
A 	B 	For PR 12 to PR 160 Yellow presentation, red handle for up to 4 padlocks Rear mounting	
		Price list code	
C 	D 	PR 40 to PR 160 Medium frame □ 72, Front mounting possible (B, C, D or E) Without engraving With engraving (state requirement) With engraving (Inter principal) With engraving (Hauptschalter) With engraving (Main switch)	
		R6J72MN61 R6J720MN61 R6J721MN61 R6J722MN61 R6J723MN61	R6J72MN61 R6J720MN61 R6J721MN61 R6J722MN61 R6J723MN61
E 	F 	Large frame □ 96, Front mounting possible (B, C, D, E, or G) With engraving (state requirement) With engraving (Inter principal) With engraving (Hauptschalter) With engraving (Main switch)	
		R6J960GN61 R6J961GN61 R6J962GN61 R6J963GN61	R6J960GN61 R6J961GN61 R6J962GN61 R6J963GN61
G 		Extra charges Extra charge for standard engraving Extra charge for customised engraving Extra charge for IP 65 version	
		Y000 Y100 Y662	
		Accessories Adjusting clips for door alignment Extension piece 31 mm, for control shaft (max. 3 per switch) Relay terminals 16 mm ² (pair) Operating key, when door open	
		WR01 WR02 WR03 WR04	WR01 WR02 WR03 WR04

If the switching angle is different from 60°:
Replace J with H

- For version with grey plate, grey/black handle
replace the letter J with the letter V in the
reference and delete 61

- For clutch drive with door interlock
replace the letter R with V in the reference

Separate cam switches

Standard engraving (p. 286)

► ENCLOSURE

TYPE BPR

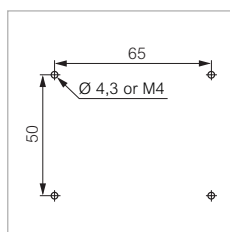
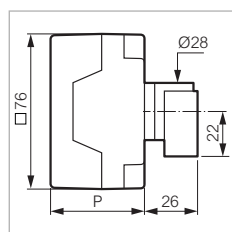
Compact size

Cat. No.



PR 12 for mounting in enclosure, special version with inverted terminals

Base mounting PR 12
Enclosure in light grey, self-extinguishing thermoplastic
IP 40
4 knock-out $\varnothing$ 19 cable entries for Pg 11 with nut
The price for the presentation includes engraving of the standard texts and symbols



PR 12 - 1 or 2 contacts

- 48 plate and frame
- Aluminium, small grey/black handle
- Yellow, padlockable presentation small red handle
- Grey, padlockable presentation, small grey-black handle

Price list code

BPR01Q48	BPRQ48PN
BPR01J	BPRJ48PN51
BPR01V	BPRV48PN

PR 12 - 3 or 4 contacts

- 48 plate and frame
- Aluminium, small grey/black handle
- Yellow, padlockable presentation small red handle
- Grey, padlockable presentation, small grey-black handle

BPR02Q48	BPRQ48PN
BPR02J	BPRJ48PN51
BPR02V	BPRV48PN

Accessories

Cable gland Pg11 with nut	CM10P	CM10P
---------------------------	-------	-------

Extra charges

Standard engraving	Y000
Customised engraving	Y100
IP 65 version	Y632

Foolproofing (see p. 291)

P *	Price list code	Contacts
46	BPR01	1-2 CONTACTS
58	BPR02	3-4 CONTACTS

P * = Depth

- for other legend plate colours

replace Q48 (in the reference and price list code) with:

- Q41 - □ 48 red legend plate
- Q43 - □ 48 black legend plate
- Q45 - □ 48 yellow legend plate

- for other handle colours

replace PN (in the reference) with:

- PN51 - small red handle
- PN53 - small black handle

Separate cam switches

Standard engraving (p. 286)

► ENCLOSURE

TYPE BC

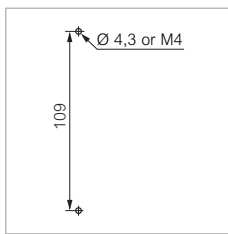
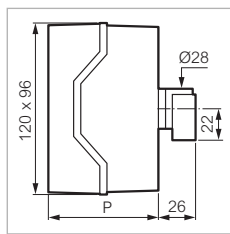
Standard size enclosure

Cat. No.



PR 12 to PR 26

Version with base mounted cam switch
 Enclosure in self-extinguishing thermoplastic
 black base, light grey cover
 IP 40
 4 knock-out Ø 23 cable entries for Pg 16 with nut
 The price for the presentation includes engraving
 standard texts and symbols



Price list code

PR 12 - 1 to 6 contacts

☐ 64 plate and frame		
● Aluminium, black handle	BC21Q3	BCQ3
☐ 48 plate and frame		
● Yellow, padlockable presentation red handle	BC21J48	BCJ48
● Grey, padlockable presentation, grey/black handle	BC21V48	BCV48

PR 12 - 7 to 10 contacts

☐ 64 plate and frame		
● Aluminium, black handle	BC22Q3	BCQ3
☐ 48 plate and frame		
● Yellow, padlockable presentation red handle	BC22J48	BCJ48
● Grey, padlockable presentation, grey/black handle	BC22V48	BCV48

PR 17-21 - 1 to 6 contacts

PR 26 - 1 to 4 contacts

☐ 64 plate and frame		
● Aluminium, black handle	BC23Q3	BCQ3
☐ 48 plate and frame		
● Yellow, padlockable presentation red handle	BC23J48	BCJ48
Grey, padlockable presentation, grey/black handle	BC23V48	BCV48

PR 17-21 - 7 to 10 contacts

PR 26 - 5 to 8 contacts

☐ 64 plate and frame		
● Aluminium, black handle	BC24Q3	BCQ3
☐ 48 plate and frame		
● Yellow, padlockable presentation red handle	BC24J48	BCJ48
● Grey, padlockable presentation, grey/black handle	BC24V48	BCV48

Accessories

Cable gland Pg16 with nut	CM14P	CM14P
Relay terminals (pair)	WR03	WR03
Tamperproof screw (pair)	WR05	WR05

Extra charges

Standard engraving	Y000
Customised engraving	Y100
IP 65 version	Y663

P *	Price list code	Contacts
77	BC21-23	1-6 CONTACTS (1-4 PR26)
101	BC22-24	7-10 CONTACTS (5-8 PR26)

P * = Depth

- for other colours, legend plates and handles
 replace Q3 (in the reference and
 price list code with:

Q1 - aluminium legend plate, red handle

R1 - red legend plate, red handle

J1 - red legend plate, yellow handle

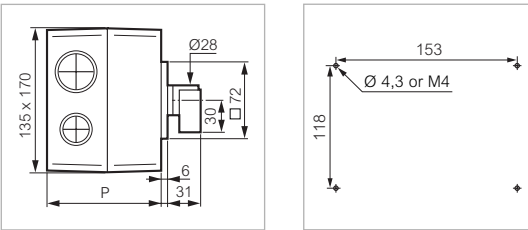
N3 - black legend plate, black handle

Separate cam switches

Standard engraving (p. 286)

► ENCLOSURE

TYPE BCF	Standard size enclosure	Cat. No.
----------	-------------------------	----------



P	Price list code	Contacts
107	BCF140-240	1-4 CONTACTS
145	BCF340-440	5-8 CONTACTS

P * = Depth

PR 40 to PR 63

Version with base mounted cam switch
Enclosure in light grey, self-extinguishing thermoplastic
IP 40
10 knock-out cable entries:
6 x Ø 29 for Pg 21
(2 above and below, 1 on each side)
4 x Ø 38 for Pg 29 (1 on each side)
The price for the presentation includes engraving of the standard texts and symbols

PR 40-63 - 1 and 2 contacts

- Without presentation
- 72 plate and frame
 - Aluminium, medium grey/black handle
 - Yellow, padlockable presentation medium red handle
 - 96 plate and frame
 - Aluminium, large grey/black handle

Price list code

BCF140	BCF
BCF140Q72	BCFQ72MN
BCF140J72	BCFJ72MN61
BCF140Q96	BCFQ96GN

PR 40-63 - 3 and 4 contacts

- Without presentation
- 72 plate and frame
 - Aluminium, medium grey/black handle
 - Yellow, padlockable presentation medium red handle
 - 96 plate and frame
 - Aluminium, large grey/black handle

BCF240	BCF
BCF240Q72	BCFQ72MN
BCF240J72	BCFJ72MN61
BCF240Q96	BCFQ96GN

Separate cam switches

Standard engraving (p. 286)

► ENCLOSURE

TYPE BCF (continued)

Standard size enclosure

Cat. No.



PR 40-63 - 5 and 6 contacts

Without presentation

□ 72 plate and frame

● Aluminium,
medium grey/black handle

● Yellow, padlockable presentation
medium red handle

□ 96 plate and frame

● Aluminium,
large grey/black handle

Price list code

BCF340

BCF

BCF340Q72

BCFQ72MN

BCF340J72

BCFJ72MN61

BCF340Q96

BCFQ96GN

PR 40-63 - 7 and 8 contacts

Without presentation

□ 72 plate and frame

● Aluminium,
medium grey/black handle

● Yellow, padlockable presentation
medium red handle

□ 96 plate and frame

● Aluminium,
large grey/black handle

BCF440

BCF

BCF440Q72

BCFQ72MN

BCF440J72

BCFJ72MN61

BCF440Q96

BCFQ96GN

Accessories

Cable gland Pg 21 with nut

Cable gland Pg 29 with nut

CM18P

CM24P

CM18P

CM24P

Extra charges

Standard engraving

Customised engraving

IP 55 version

Y000

Y100

Y647

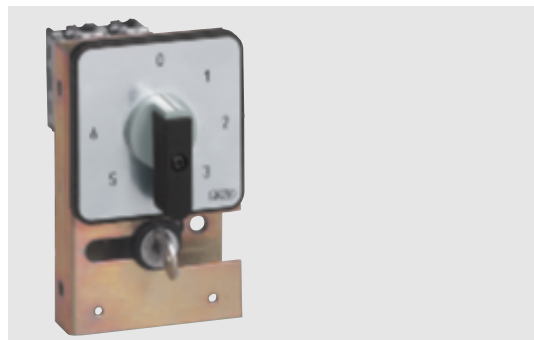
Separate cam switches

Standard engraving (p. 286)

► KEYLOCKING DEVICE

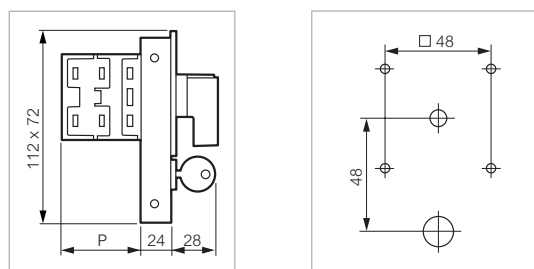
Plate and frame (quadral)

Cat. No.



For PR 12 to PR 160
For switch in front mounting mode
With keylocking

Handle locked in all positions
key no. 455
(or 1424A, state requirement on order, no extra charge)
Key can be withdrawn in locked and
unlocked positions
On request, the handle can be:
- locked in certain positions (to be stated on order)
The key can be:
- withdrawn in locked position
only (to be stated on order)



P *: front mounting E (p. 255)

* P = Depth

Price list code

PR 12 to PR 160

- 64 plate and frame
 - Aluminium, medium grey/black handle
- 72 plate and frame
 - Aluminium, medium grey/black handle

Q64MNC

Q64MNC

Q72MNC

Q72MNC

Extra charges

Other combinations

Y645

Foolproofing and special shaft (see p. 291)

- for other plate colours

- replace (in the reference and price list code)

Q64 with:

Q61 - red plate

Q63 - black plate

Q65 - yellow plate

- replace (in the reference and price list code)

Q72 with:

Q71 - red plate

Q73 - black plate

Q75 - yellow plate

- for other medium handle colours PR 12 to PR 26

- replace (in the reference and price list code)

MN with:

MN51 - red medium handle

MN53 - black medium handle

- for other handle colours PR 40 to PR 160

- replace (in the reference and price list code)

MN with:

MN61 - red medium handle

MN63 - black medium handle

Separate cam switches

Standard engraving (p. 286)

► PARALLEL COUPLING OF 2 SWITCHES

Plate and frame (quadral)

Cat. No.



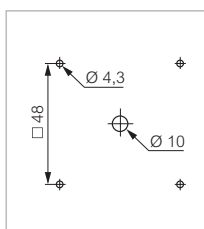
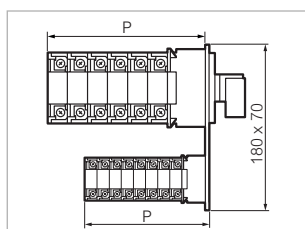
For PR 12 to PR 160
For switch in front mounting mode

Applications:

- For diagrams requiring more contacts than the maximum number possible
- where there is limited depth available

There is a driving switch actuated by the handle, and a driven switch actuated by a gear train

Both switches have the same switching angle and number of positions



P *: front mounting E (p. 255)

* P = Depth

- for other plate colours, replace (in the reference and the price list code)

Q64 with:

- Q61 - red plate
- Q63 - black plate
- Q65 - yellow plate

Q72 with:

- Q71 - red plate
- Q73 - black plate
- Q75 - yellow plate

Q96 with:

- Q91 - red plate
- Q93 - black plate
- Q95 - yellow plate

- for other handle colours, replace (in reference and price list code)

For PR 12 to PR 26, MN or PC with:

- MN51 or PC51 - red medium handle / small lever
- MN53 or PC53 - black medium handle / small lever

lever

For PR40 to PR 160, MN or PC with:

- MN61 or PC61 - red medium handle / small lever
- MN63 or PC63 - black medium handle / small lever

For PR40 to PR 160, GN or GC with:

- GN61 or GC61 - red large handle / large lever
- GN63 or GC63 - black large handle / large lever

Price list code

PR 12 to PR 160

Driving switch presentation

□ 64 plate and frame

- Aluminium, medium grey/black handle

Q64MNAP

Q64MNAP

□ 72 plate and frame

- Aluminium, medium grey/black handle

Q72MNAP

Q72MNAP

□ 96 plate and frame

- Aluminium, large grey/black handle

Q96GNAP

Q96GNAP

Extra charges

Foolproofing and special shaft (see p. 291)

Possibility of coupling 2 cam switches in parallel:

Driven switch	Driving switch				
	PR 12	PR 17 - PR 21	PR 26	PR 40 - PR 63	PR 125 - PR 160
PR 12	X	X	X	X	X
PR 17 - PR 21		X	X	X	X
PR 26			X	X	X
PR 40 - PR 63				X	

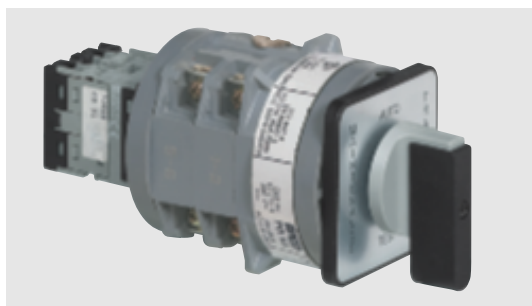
Separate cam switches

Standard engraving (p. 286)

► SERIAL COUPLING OF 2 SWITCHES

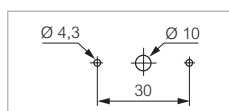
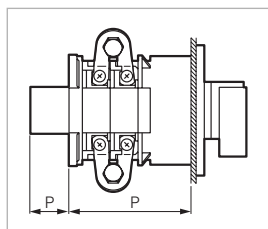
Plate and frame (quadral)

Cat. No.

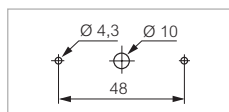


For PR 12 to PR 160
For switch in front mounting mode

Applications:
- for very different current circuits
- limited to 12 contact stages in total
(1 PR stage 125-160 = 2 stages)
There is a driving switch actuated by the handle,
and a driven switch
Both switches have the same switching angle and number of positions



PR 12 to PR 26



PR 40 to PR 160

P *: see front mounting
E (p. 255)

* P = Depth

- for other plate colours, replace (in the reference and the price list code)

Q64 with:

- Q61 - red plate
- Q63 - black plate
- Q65 - yellow plate

Q72 with:

- Q71 - red plate
- Q73 - blackplate
- Q75 - yellow plate

Q96 with:

- Q91 - red plate
- Q93 - black plate
- Q95 - yellow plate

- for other handle colours,
replace (in reference and price list code)

For PR 12 to PR 26, MN or PC with:

- MN51 or PC51 - red medium handle / small lever
- MN53 or PC53 - black medium handle / small

lever

For PR40 to PR 160, MN or PC with:

- MN61 or PC61 - red medium handle / small lever
- MN63 or PC63 - black medium handle / small lever

For PR40 to PR 160, GN or GC with:

- GN61 or GC61 - red large handle / large lever
- GN63 or GC63 - black large handle / large lever

Price list code

PR 12 to PR 160

Driving switch presentation

- ☐ 64 plate and frame
- Aluminium, medium grey/black handle
- ☐ 72 plate and frame
- Aluminium, medium grey/black handle
- ☐ 96 plate and frame
- Aluminium, large grey/black handle

Q64MNAS

Q64MNAS

Q72MNAS

Q72MNAS

Q96GNAS

Q96GNAS

Extra charges

Foolproofing and special shaft (see p. 291)

Possibility of coupling 2 cam switches in series:

Driven switch	Driving switch				
	PR 12	PR 17 - PR 21	PR 26	PR 40 - PR 63	PR 125 - PR 160
PR 12		X	X	X	X
PR 17 - PR 21			X	X	X
PR 26				X	X
PR 40 - PR 63					X

Separate cam switches

Standard engraving (p. 286)

► DUAL-VOLTAGE DEVICE

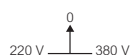
Plate and frame (quadral)

Cat. No.

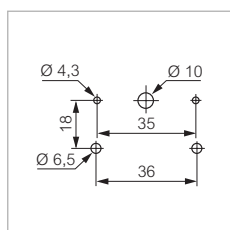
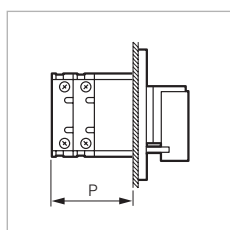


For PR 12 to PR 26
For switch in front mounting mode

Applications:
For locking the handle in the right or left position,
to prevent wrong switching



Example: Off position in the middle
and max. 90° rotation
to right or left



P*: see front mounting E (p. 255)

* P = Depth

- for other plate colours, replace (in the reference and the price list code)

EZS64 with:

- EZS61 - red plate
- EZS63 - black plate
- EZS65 - yellow plate

EZS72 with:

- EZS71 - red plate
- EZS73 - black plate
- EZS75 - yellow plate

- for other medium handle colours, replace (in reference and price list code)

MN with:

- MN51 - red medium handle
- MN53 - black medium handle

Price list code

PR 12

Dual-voltage device
with □ 64 plate and frame
● Aluminium,
medium grey/black handle

EZS64MN

EZS64MN

PR 17-21 and PR 26

Dual-voltage device
with □ 72 plate and frame
● Aluminium,
medium grey/black handle

EZS72MN

EZS72MN

Extra charges

Foolproofing and special shaft (see p. 291)

Separate cam switches

To order your cam switch, it is essential to follow the 5-step procedure (see presentation on p. 126)
Mini cam switches are only available in standard formats.

► V - OPTIONS AND COMPONENTS

FUNCTIONS		Page
► Handles and levers		279
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Separate cam switches

HANDLES

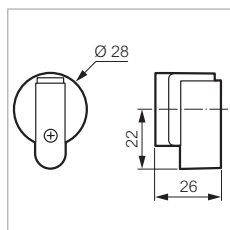
HANDLES

FOR PR 12 TO PR 26

Cat. No.



PN50



PN

For □ 5 shaft

Small handle

- Grey-black, without foolproofing
- Grey-black, with foolproofing
- Red, without foolproofing
- Red, with foolproofing

Price list code

PN50	PN50
PND50	PND50

PN51	PN51
PND51	PND51

PN53	PN53
PND53	PND53

Medium handle

- Grey-black, without foolproofing
- Grey-black, with foolproofing
- Red, without foolproofing
- Red, with foolproofing

MN50	MN50
MND50	MND50

MN51	MN51
MND51	MND51

MN53	MN53
MND53	MND53

Large handle

- Grey-black, without foolproofing
- Grey-black, with foolproofing
- Red, without foolproofing
- Red, with foolproofing

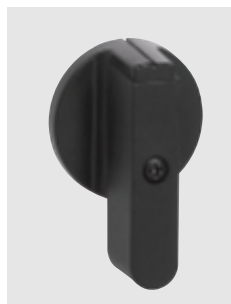
GN50	GN50
GND50	GND50

GN51	GN51
GND51	GND51

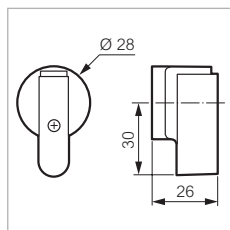
GN53	GN53
GND53	GND53

FOR PR 40 TO PR 160

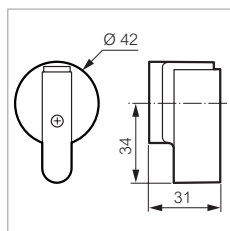
Cat. No.



GN63



MN



GN

For □ 6 shaft

Medium handle

- Grey-black, without foolproofing
- Grey-black, with foolproofing
- Red, without foolproofing
- Red, with foolproofing

Price list code

MN60	MN60
MND60	MND60

MN61	MN61
MND61	MND61

MN63	MN63
MND63	MND63

Large handle

- Grey-black, without foolproofing
- Grey-black, with foolproofing
- Red, without foolproofing
- Red, with foolproofing

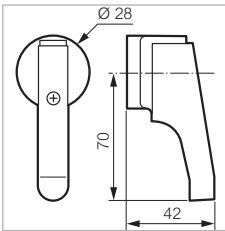
GN60	GN60
GND60	GND60

GN61	GN61
GND61	GND61

GN63	GN63
GND63	GND63

Separate cam switches

LEVERS

LEVERS	For PR 12 to PR 40	Cat. No.												
	 PC													
PC50	For ☐ 5 shaft Small levers ● Grey-black, without foolproofing ● Grey-black, with foolproofing ● Red, without foolproofing ● Red, with foolproofing ● Black, without foolproofing ● Black, with foolproofing	Price list code <table><tr><td>PC50</td><td>PC50</td></tr><tr><td>PCD50</td><td>PCD50</td></tr><tr><td>PC51</td><td>PC51</td></tr><tr><td>PCD51</td><td>PCD51</td></tr><tr><td>PC53</td><td>PC53</td></tr><tr><td>PCD53</td><td>PCD53</td></tr></table>	PC50	PC50	PCD50	PCD50	PC51	PC51	PCD51	PCD51	PC53	PC53	PCD53	PCD53
PC50	PC50													
PCD50	PCD50													
PC51	PC51													
PCD51	PCD51													
PC53	PC53													
PCD53	PCD53													

LEVERS

For PR 40 to PR 160

Cat. No.

PC60

PC

GC

For ☐ 6 shaft

Small levers

- Grey-black, without foolproofing
- Grey-black, with foolproofing
- Red, without foolproofing
- Red, with foolproofing
- Black, without foolproofing
- Black, with foolproofing

Large levers

- Grey-black, without foolproofing
- Grey-black, with foolproofing
- Red, without foolproofing
- Red, with foolproofing
- Black, without foolproofing
- Black, with foolproofing

Price list code

PC60	PC60
PCD60	PCD60
PC61	PC61
PCD61	PCD61
PC63	PC63
PCD63	PCD63
GC60	GC60
GCD60	GCD60
GC61	GC61
GCD61	GCD61
GC63	GC63
GCD63	GCD63

Separate cam switches

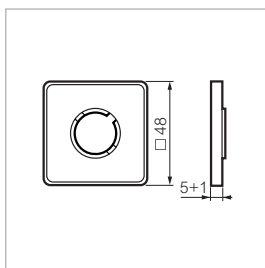
Standard engraving (p. 286)

▶ PLATES

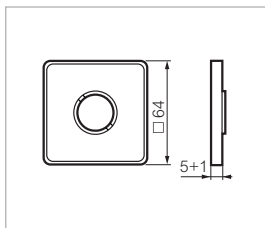
Cat. No.



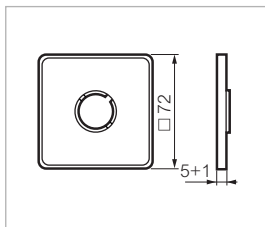
WE70000



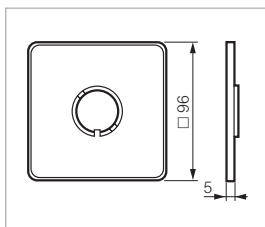
□ 48



□ 64



□ 72



□ 96

Fit onto frame and onto one-hole mounting $\varnothing$ 22 head (except □ 96)

Price list code

□ 48

● Aluminium

WE40

WE40

● Red

WE41

WE41

● Black

WE43

WE43

● Yellow

WE45

WE45

○ Transparent

WE47

WE47

● Aluminium - with engraving

WE40000

WE40000

● Red - with engraving

WE41000

WE41000

● Black - with engraving

WE43000

WE43000

● Yellow - with engraving

WE45000

WE45000

○ Transparent - with engraving

WE47000

WE47000

□ 64

● Aluminium

WE60

WE60

● Red

WE61

WE61

● Black

WE63

WE63

● Yellow

WE65

WE65

○ Transparent

WE67

WE67

● Aluminium - with engraving

WE60000

WE60000

● Red - with engraving

WE61000

WE61000

● Black - with engraving

WE63000

WE63000

● Yellow - with engraving

WE65000

WE65000

○ Transparent - with engraving

WE67000

WE67000

□ 72

● Aluminium

WE70

WE70

● Red

WE71

WE71

● Black

WE73

WE73

● Yellow

WE75

WE75

○ Transparent

WE77

WE77

● Aluminium - with engraving

WE70000

WE70000

● Red - with engraving

WE71000

WE71000

● Black - with engraving

WE73000

WE73000

● Yellow - with engraving

WE75000

WE75000

○ Transparent - with engraving

WE77000

WE77000

□ 96

● Aluminium

WE90

WE90

● Red

WE91

WE91

● Black

WE93

WE93

● Yellow

WE95

WE95

● Aluminium - with engraving

WE90000

WE90000

● Red - with engraving

WE91000

WE91000

● Black - with engraving

WE93000

WE93000

● Yellow - with engraving

WE95000

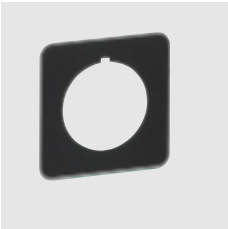
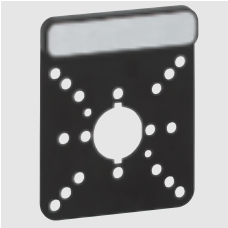
WE95000

For version with engraving see form (p. 287)

Separate cam switches

Standard engraving (p. 286)

▶ PLATES, DUTY LABELS AND FRAMES

PLATES		Cat. No.	
 UF36	For single hole mounting $\varnothing$ 30 Aluminium legend	Price list code	
	☐ 48		
	● Black plate	UF36	UF36
	● Black plate - with engraving	UF36000	UF36000
	☐ 64		
	● Black plate	UF38	UF38
	● Black plate - with engraving	UF38000	UF38000
DUTY LABELS		Cat. No.	
 Q072	To be used with frame	Price list code	
	☐ 48	Q048	Q048
	☐ 64	Q064	Q064
	☐ 72	Q072	Q072
	○ Transparent insert (only for Qo48)	IF7	IF7
	● Aluminium insert (only for Qo48)	IF9	IF9
FRAMES		Cat. No.	
 CQ64	Frame	Price list code	
	☐ 48	CQ48	CQ48
	☐ 64	CQ64	CQ64
	☐ 72	CQ72	CQ72
	☐ 96	CQ96	CQ96

Separate cam switches

Standard engraving (p. 286)
Dimensions (p. 265)

► PLATES + FRAMES

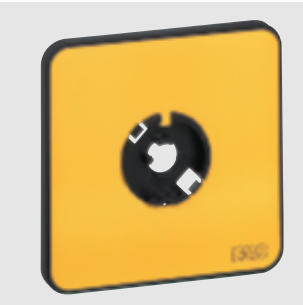
Plate + frame		Cat. No.	
	48 Aluminium Red Black Yellow	Price list code	
		Q48	Q48
		Q41	Q41
		Q43	Q43
		Q45	Q45
	64 Aluminium Red Black Yellow		
		Q64	Q64
		Q61	Q61
		Q63	Q63
		Q65	Q65
	72 Aluminium Red Black Yellow		
		Q72	Q72
		Q71	Q71
		Q73	Q73
		Q75	Q75
	96 Aluminium Red Black Yellow		
		Q96	Q96
		Q91	Q91
		Q93	Q93
		Q95	Q95

Plate + frame + duty label		Cat. No.	
	With aluminium duty label 48 Aluminium Red Black Yellow	Price list code	
		Q480	Q480
		Q410	Q410
		Q430	Q430
		Q450	Q450
	64 Aluminium Red Black Yellow		
		Q640	Q640
		Q610	Q610
		Q630	Q630
		Q650	Q650
	72 Aluminium Red Black Yellow		
		Q720	Q720
		Q710	Q710
		Q730	Q730
		Q750	Q750

Separate cam switches

► PLATE + FRAME + DUTY LABEL

Ø 22 MOUNTING

Frame + legend plate

Cat. No.



N480

With aluminium duty label
Plate and frame for single hole
mounting Ø 22 presentation
Max. panel thickness: 1.5 mm

Price list code

□ 48

● Aluminium

N480

N480

► TERMINAL COVERS

Cat. No.



CB4

For PR 12 to PR 160
Insulating material for switch with 4 contacts max.
Transparent material for PR 12 to PR 63
Opaque material for PR 125-160

With rear mounting the terminal cover is fixed
in S mode (p. 254) with:

- for PR 12 to PR 26: 2 screws
- for PR 40 to PR 160: 2 screws

With front mounting, the terminal cover is fixed
in E mode (p. 250) with:

- for PR 12: 2 screws supplied
- for PR 17 to PR 63: 2 special nuts supplied
- for PR 125 and PR 160: 2 H4 nuts supplied

Price list code

PR 12	CB4N	CB4
PR 17	CB3D	CB3
PR 21	CB3F	CB3
PR 26	CB3E	CB3
PR 40	CB5H	CB5
PR 63	CB5I	CB5
PR 125-160	CB6L	CB6

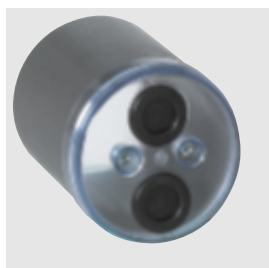
Terminal covers

PR 40-63	CB8	CB8
Pair of terminal covers in insulating material providing IP 20 protection of 2 electrical contacts located on 1 coil (provide the same number of pairs of terminal covers as coils) Clip into place after electrical connection of the terminals		

Separate cam switches

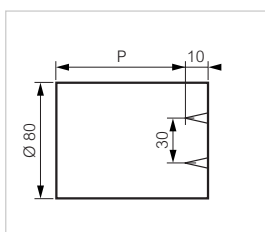
► REAR PROTECTIVE SHROUD

Cat. No.

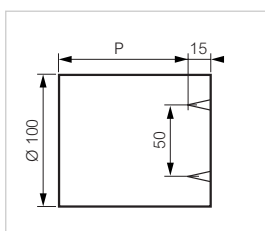


CA41N *

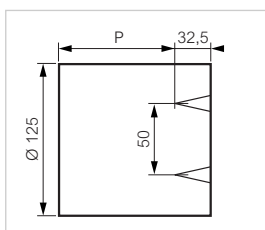
* Length of shroud to be stated when ordering the cam switch only



PR 12



PR 17 to PR 26



PR 40 to PR 63

For PR 12 to PR 63

Composition:

- Grey insulating body
- Transparent insulating cover
- IP 40 - protection against direct finger contact
- IP 55 - protection against splashing water
- PR 12 - the shroud fits on 1 standard type E switch
- PR 17 to PR 63 - the shroud must be specified when ordering the switch (rear mounting on a special plate)

Price list code

PR 12 - 1 to 12 contacts

IP 40
IP 55CA41N
CAE41NCA41N
CAE41N

PR 12 - 13 to 24 contacts

IP 40
IP 55CA42N
CAE42NCA42N
CAE42N

PR 17-21 - 1 to 12 contacts

IP 40
IP 55CA10D
CAE10DCA10D
CAE10D

PR 17-21 - 13 to 24 contacts

IP 40
IP 55CA11D
CAE11DCA11D
CAE11D

PR 26 - 1 to 12 contacts

IP 40
IP 55CA20F
CAE20FCA20F
CAE20F

PR 26 - 13 to 24 contacts

IP 40
IP 55CA21F
CAE21FCA21F
CAE21F

PR 40-63 - 1 to 12 contacts

IP 40
IP 55CA30I
CAE30ICA30I
CAE30I

PR 40-63 - 13 to 24 contacts

IP 40
IP 55CA31I
CAE31ICA31I
CAE31I

Plastic cable gland

Pg 16 for PR 12 to PR 21
Pg 21 for PR 26
Pg 29 for PR 40-63CM14P
CM18P
CM24PCM14P
CM18P
CM24P

Number of contacts	Depth (P)					
	PR 12	PR 17	PR 21	PR 26	PR 40	PR 63
1-2	42	45	45	48	74	74
3-4	52	57	57	63	94	94
5-6	62	69	69	78	114	114
7-8	72	81	81	93	134	134
9-10	82	93	93	108	154	154
11-12	92	105	105	123	174	174
13-14	128	117	117	138		
15-16	138	129	129	153		
17-18	148	141	141	168		
19-20	158	153	153	183		
21-22	168	165	165	198		
23-24	178	177	177	213		

Separate cam switches

To order engravings, fill in the form (p. 287)

To price a switch with customised engraving, please contact us

► ENGRAVING

STANDARD ENGRAVING

These are engraving according to switching angle (as illustrated plates on p. 216)

These standard engravings are not invoiced, the charge is included in the price for the plate or duty label

CUSTOMISED ENGRAVING

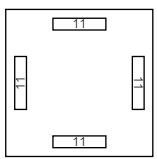
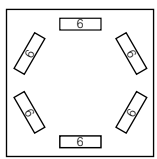
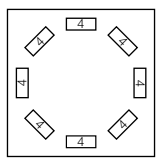
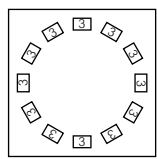
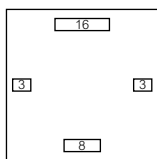
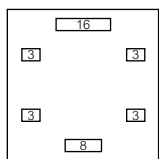
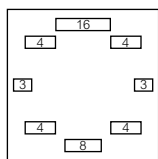
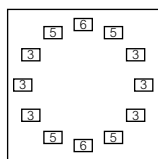
These are all the alphanumeric engravings (excluding logos, drawings, symbols) which are defined by the following parameters

For square legend plates: type WE40 to WE95 (p. 281)

type UF36, UF38 (p. 284)

For square legend plates: type Q41 to Q96 (p. 281)

- Maximum number of alphanumeric characters per position:



- Character height:

□ 48 : 3 mm; □ 64: 4 mm; □ 72: 4.5 mm; □ 96: 6 mm

The engraving is laser-etched or silk-screen printed according to type

- Colour of engraving:

Black on aluminium and yellow plate

White on red and black plate

For duty labels: type Q048, Q064 and Q072 (p. 282)

- Maximum number of characters:

per line: 13

Maximum number of lines: 2

- Character height

□ 48 : 3 mm ; □ 64: 4 mm ; □ 72: 4.5 mm

- Colour of engraving:

Black on aluminium plate

Special engravings:

These are engravings not covered by the technical parameters used for creating standard engravings and which therefore require a special execution.

This applies to all alphanumeric engravings outside the limits defined above, and also logos, drawings or symbols



Request form for specific cam switch

Fill in one form for each type of switch

APPLICATION

- ☐ Load switching
☐ resistive ☐ electromagnetic

Rated voltage AC/DC

Rated current A

- ☐ Control of motors
☐ Starting/Switching off a running motor

- ☐ Reverse direction of rotation

Motor rating A/CV/kW

DIAGRAM

(Fill in the grid below using the appropriate symbols)

- ☒ Closed contact
- ☒ Closed contact, 2 positions without cut-off
- ☒ Overlapping: second contact closes before first contact opens (not possible with 30° switching angle)
- ☒ Impulse contact, closes momentarily when switching from one position to next
- ☐ Spring return

Contact Nos. Terminals	Position No.												connection + links
	1	2	3	4	5	6	7	8	9	10	11	12	
1-2													○ 1 3 ○
3-4													○ 2 4 ○
5-6													○ 5 7 ○
7-8													○ 6 8 ○
9-10													○ 9 11 ○
11-12													○ 10 12 ○
13-14													○ 13 15 ○
15-16													○ 14 16 ○
17-18													○ 17 19 ○
19-20													○ 18 20 ○
21-22													○ 21 23 ○
23-24													○ 22 24 ○
25-26													○ 25 27 ○
27-28													○ 26 28 ○
29-30													○ 29 31 ○
31-32													○ 30 32 ○
33-34													○ 33 35 ○
35-36													○ 34 36 ○
37-38													○ 37 39 ○
39-40													○ 38 40 ○
41-42													○ 41 43 ○
43-44													○ 42 44 ○
45-46													○ 45 47 ○
47-48													○ 46 48 ○

SWITCHING ANGLE

- ☐ 90° ☐ 60° ☐ 45° ☐ 30°

(indicate positions in boxes)

Blocking-off between and position

One-way rotation: ☐ right ☐ left

MOUNTING

- ☐ Front ☐ One-hole
☐ Rear ☐ DIN rail
☐ Enclosure

STANDARD PRESENTATION

- ☐ Handle: ☐ small
☐ medium
☐ large
- ☐ Lever: ☐ small ☐ large
 Colour: ☐ grey ☐ black
☐ red
- ☐ Selector switch style handle
- ☐ With key
 Choice of key: ☐ 455 ☐ 1424 A
☐ other.....

LEGEND PLATE AND ENGRAVING

Choice of legend plate:

- ☐ 48 ☐ 64 ☐ 72 ☐ 96
☐ Alu ☐ Black ☐ Red ☐ Yellow

SWITCHING ANGLE

- ☐ Engraving: (use opposite box to specify your engravings)
☐ linear
☐ polygonal

- ☐ Duty label
 (2 x 13 characters) :

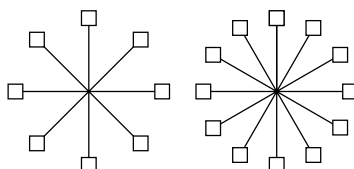
PADLOCKABLE PRESENTATION

- Colour: ☐ yellow/red ☐ grey
 Size: ☐ 48 ☐ 72 ☐ 96

OPTIONS

- ☐ Foolproof handle
- ☐ IP rating: ☐ IP 40 (standard)
☐ IP 55
☐ IP 65
- ☐ Terminal covers
- ☐ Tropicalised version

MARKING OF POSITIONS



YOUR DETAILS

Company:

Name and surname:

Address:

E-mail :

Tel:

Fax:

COMMENTS

YOUR ENGRAVINGS

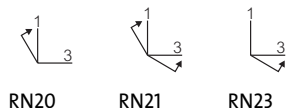
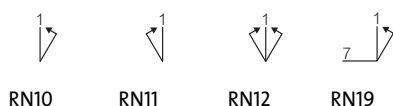
Separate cam switches

Please specify the spring return on the form (p. 287)

► AUTOMATIC SPRING RETURN

REDUCED TYPE RN

Cat. No.



For PR 12
This device makes it possible to incorporate spring returns without extra charge and without increasing switch dimension
Number of spring return contacts per position: max. 2

Price list code

PR 12	-	RNxx ⁽¹⁾
(1) Complete according to spring return chosen opposite		

NORMAL TYPE R

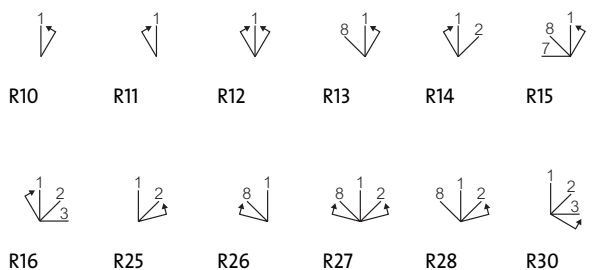
Cat. No.

30°



For PR 12 to PR 63
This device makes it possible to incorporate spring returns without increasing switch dimensions
The maximum number of contacts per spring return position varies according to the rating
The spring return positions are always at 30°
The switching angle is at 30°-45°-90° (for PR 12 to PR 26)
The switching angle is at 45°-90° (for PR 40 and PR 63)

45°

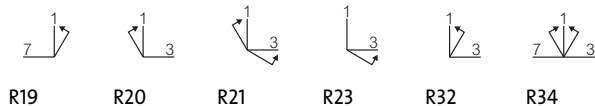


Price list code

PR 12 (4 spring return contacts)	Y652	Rxx ⁽¹⁾
PR 17 (4 spring return contacts)	Y639	Rxx ⁽¹⁾
PR 21 (4 spring return contacts)	Y639	Rxx ⁽¹⁾
PR 26 (4 spring return contacts)	Y639	Rxx ⁽¹⁾
PR 40 (2 spring return contacts)	Y640	Rxx ⁽¹⁾
PR 63 (2 spring return contacts)	Y640	Rxx ⁽¹⁾

(1) Complete according to spring return chosen opposite

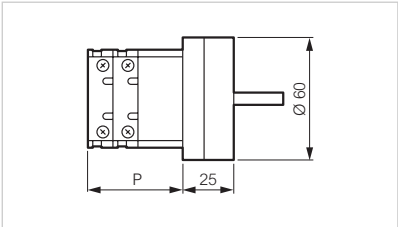
90°



Separate cam switches

Please specify the spring return on the form (p. 287)

► AUTOMATIC SPRING RETURN (CONTINUED)

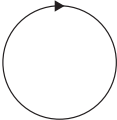
SPECIAL REINFORCED TYPE RS				Cat. No.
				
30°	45°	60°	90°	
				
30°	45°	60°	90°	
				
30°	45°	60°	90°	
				
30°	45°	30°	45°	
				
E and S mounting methods (see p. 255)				

For PR 12 to PR 26
For E or S mounting
Modified sizing
Enables greater number of spring return contacts per position than with standard “R” spring return
Spring returns possible with pass-through contact

Price list code

PR 12 to PR 26	Y626	RS
----------------	------	----

► MISCELLANEOUS VERSIONS

ONE-WAY ROTATION (SRO)		Cat. No.
	SRO to the right	
	SRO to the left	
For PR 12 to PR 160 This device makes it impossible to turn the handle in the opposite direction to the one stipulated Available for switching angles 90°, 60° and 45° No change to switch dimensions		
		Price list code
PR 12	Y649	(1)
PR 17 to PR 26	Y642	(1)
PR 40 to PR 160	Y643	(1)

(1) No reference, write “direction of rotation to xxx” in the designation

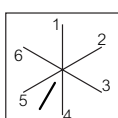
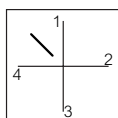
Separate cam switches

► MISCELLANEOUS VERSIONS (CONTINUED)

BLOCKING-OFF BETWEEN 2 POSITIONS

Cat. No.

Examples



For PR 12 to PR 160

This device prevents the switch being turned between 2 consecutive positions.

Indicate which positions (see form on p. 287)

Available for switching angles 90° and 60°

No change to switch dimensions

Not compatible with one-way rotation device (SRO)

	Price list code	
PR 12	-	(1)
PR 17 to PR 26	Y634	(1)
PR 40 to PR 160	Y635	(1)

(1) No reference, write “blocking-off between X and X” in the designation

TROPICALISED VERSION

Cat. No.

For PR 12 to PR 160

(standard on the PR 12)

The cost of this version is calculated

as a fixed charge per switch

and a variable extra charge

(multiplied by the number of contacts)

	Price list code	
PR 12	-	-
PR 17	Y 562 + (Y563 x no. of contacts)	(1)
PR 21	Y 564 + (Y565 x no. of contacts)	(1)
PR 26	Y 566 + (Y567 x no. of contacts)	(1)
PR 40	Y 570 + (Y571 x no. of contacts)	(1)
PR 63	Y 572 + (Y573 x no. of contacts)	(1)
PR 125	Y 578 + (Y579 x no. of contacts)	(1)
PR 160	Y 580 + (Y581 x no. of contacts)	(1)

(1) No reference, write “tropicalised” in the designation

FASTON TERMINALS

Cat. No.

For PR 12 to PR 26

Terminals 6.35 (and/or 2 x 2.8 for PR 12)

Multiply the extra charge by the number of terminals

	Price list code	
PR 12	Y653 (per terminal)	(1)
PR 17 to PR 26	Y620 (per terminal)	(1)

(1) No reference, write out the text and the terminal positions in full in the designation

Separate cam switches

► MISCELLANEOUS VERSIONS (CONTINUED)

REINFORCED IP RATING

Cat. No.

Standard IP rating - IP 40

Price list code

IP 55

For PR 12	Y651	(1)
For PR 17 to PR 160	Y627	(1)
For PR 40-63 (in BCF enclosure)	Y647	(1)

IP 65

For PR 12 to PR 160	Y632	(1)
For PR 12 (in BPR enclosure)	Y632	(1)
For PR 12 to PR 26 (in BC enclosure)	Y663	(1)
For PR 12 to PR 160 (with padlockable presentation)	Y661	(1)
For PR 12 to PR 160 (clutch drive + frame)	Y662	(1)
For PR 12 (ø 22 mounting)	Y667	(1)

(1) No reference, write:
"IPxx" in the designation

SPECIAL SHAFTS

Cat. No.

Shaft with foolproof profile



Price list code

For PR 12 (E-EZ mounting) ≤ 12 contacts foolproofed shaft	-	D
For PR 17 to PR 160 and PR 12 (other mounting than those below)	Y613	D

Special dimension shaft

Standard dimension
- PR 12 to PR 26 = 26 mm
- PR 40 to PR 160 = 27 mm

For PR 12 to PR 160	Y617	(1)
---------------------	------	-----

(1) No reference, write:
"shaft dimension xx"
(size of projection in mm)

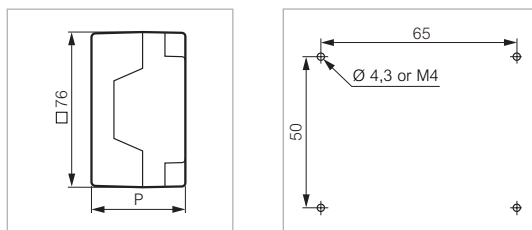
Separate cam switches

► EMPTY ENCLOSURES

TYPE BPR

For PR12*

Cat. No.



Technical specifications (p. 270)
 Delivered with blank aluminium plate
 Possibility to use a padlockable presentation

Price list code

For PR 12 -1-2 contacts
 For PR 12 -3-4 contacts

BPR01
 BPR02

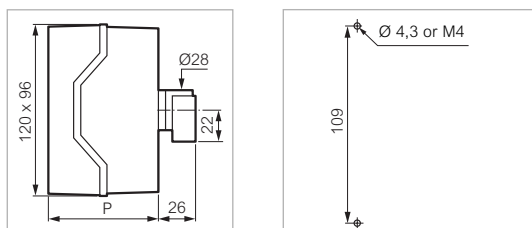
BPR01
 BPR02

P *	Price list code	Contacts
46	BPR01	1-2 CONTACTS
58	BPR02	3-4 CONTACTS

P * = Depth

TYPE BC

Cat. No.



Technical specifications (p. 271)
 With a 64 blank aluminium plate and a black handle
 (see p. 271 for enclosure customisation)
 for PR 12* to PR 26 mounting, bare shaft version

Price list code

For PR 12 -1-2 contacts
 For PR 12 -3-6 contacts
 For PR 12 - 7-10 contacts
 For PR 17-21 -1-2 contacts
 For PR 17-21 -3-6 contacts
 For PR 17-21 - 7-10 contacts
 For PR 26 -1-2 contacts
 For PR 26 -3-4 contacts
 For PR 26 -5-6 contacts
 For PR 26 - 7-8 contacts

BC05Q3
 BC06Q3
 BC07Q3
 BC11Q3
 BC12Q3
 BC13Q3
 BC14Q3
 BC15Q3
 BC16Q3
 BC13Q3

BC05Q3
 BC06Q3
 BC07Q3
 BC11Q3
 BC12Q3
 BC13Q3
 BC14Q3
 BC15Q3
 BC16Q3
 BC13Q3

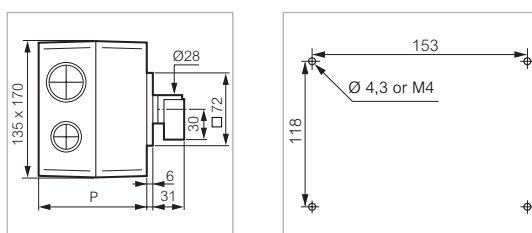
P *	Price list code	Contacts
77	BC01-02-0-06 11-12-14-15	1-6 CONTACTS (1-4 PR26)
101	BC03-04-07 13-16	7-10 CONTACTS (5-8 PR26)

P * = Depth

* Switch version with terminals reversed

TYPE BCF

Cat. No.



For PR40-63
 Technical specifications (p. 272)
 Delivered with a complete
 72-96 plate and frame
 or padlockable presentation

Price list code

For PR 40-63 -1-2 contacts
 For PR 40-63 -3-4 contacts
 For PR 40-63 -5-6 contacts
 For PR 40-63 - 7-8 contacts

BCF140
 BCF240
 BCF340
 BCF440

BCF140
 BCF240
 BCF340
 BCF440

P *	Price list code	Contacts
107	BCF140-240	1-4 CONTACTS
145	BCF340-440	5-8 CONTACTS

P * = Depth