

# Protection, flexibility and safety

## Cam switches from 10 to 63 A

### ► STANDARD SOLUTIONS P. 198 - 223

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



**Choice of electrical configuration**  
from 1 to 24 contacts

**Metal shaft**  
can withstand more than  
1 million operations

**Customized  
engravings**

### ► ADVANTAGES

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

# MINI CAM SWITCHES

▶  $\phi 16/22$ mm single hole mounting

 Technical Info (p. 224)

GENERAL USE RATING 10A

IP65 standard



223501



223511












223525



223528

Mounting and Dimensions see pg 199

Function	General use rating - amps	Number of poles	Number of contacts	Positions	Part Number
ON/OFF	10	1	1		<b>223501</b>
	10	2	2		<b>223502</b>
	10	3	3		<b>223503</b>
	10	4	4		<b>223504</b>
CHANGEOVER WITHOUT "OFF"	10	1	2		<b>223511</b>
	10	2	4		<b>223512</b>
	10	3	6		<b>223513</b>
	10	4	8		<b>223514</b>
CHANGEOVER WITH "OFF"	10	1	2		<b>223505</b>
	10	2	4		<b>223506</b>
	10	3	6		<b>223507</b>
	10	4	8		<b>223508</b>
THREE WAY WITHOUT "OFF"	10	1	3		<b>223515</b>
	10	2	6		<b>223516</b>
	10	3	9		<b>223517</b>
THREE WAY WITH "OFF"	10	1	3		<b>223521</b>
	10	2	6		<b>223522</b>
	10	3	9		<b>223523</b>
FOUR WAY WITHOUT "OFF"	10	1	4		<b>223525</b>
	10	2	8		<b>223526</b>
AMMETER - 3 CTs WITH COMMON POINT Contact Configuration - 8151	10		6		<b>223529</b>
VOLTMETER - WITHOUT NEUTRAL Contact Configuration - 8351	10		4		<b>223527</b>
VOLTMETER - WITH NEUTRAL Contact Configuration - 8357	10		6		<b>223528</b>

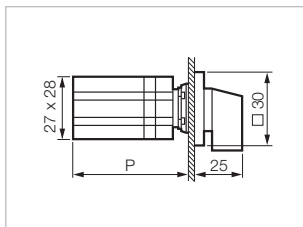
# MINI CAM SWITCHES

## ► Technical Specifications

Characteristics	Data
► Thermal current I <sub>th</sub>	10 A
► Rated operating current I <sub>e</sub>	
- 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 <sub>i</sub> (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

Characteristics	Data
► 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 <sup>2</sup> max. 1 x 0.5 mm <sup>2</sup> min.
► Operating temperature	- 20°C to + 50°C
► Standards	IEC/EN 60947-1 IEC/EN 60947-3 CSA 22.2 UL 508

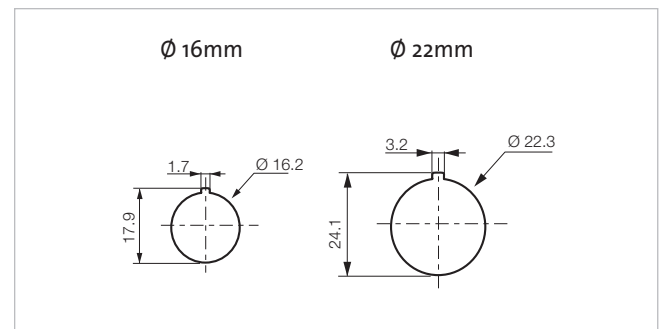
## Dimensions



**Dimensions in mm**  
 \*P: 46 (1-2 CONTACTS)  
 58 (3-4 CONTACTS)  
 70 (5-6 CONTACTS)  
 82 (7-8 CONTACTS)  
 94 (9-10 CONTACTS)

**Panel Thickness**  
 1 to 5.5mm

## Mounting



# CAM SWITCHES

## ► Single Hole Mounting $\phi 22\text{mm}$



Technical Info (p. 224)

### GENERAL USE RATING 12A

IP40 standard - IP65 available upon request



HANDLE WITH LEGEND



HANDLE



LEVER



KEY

Mounting and Dimensions see pg 226 to 229

Switch Series	Operator	Number of poles	Number of contacts	Positions	Designation	Part Number
PR12	HANDLE/LEGEND	1	1		PR12 1101 A4 E N48MD50	<b>NB01AX80</b>
PR12	HANDLE/LEGEND	2	2		PR12 1102 A4 E N48MD50	<b>NB02AX80</b>
PR12	HANDLE/LEGEND	3	3		PR12 1103 A4 E N48MD50	<b>NB03AX80</b>
PR12	HANDLE/LEGEND	4	4		PR12 1104 A4 E N48MD50	<b>NB04AX80</b>
PR12	HANDLE	1	1		PR12 1101 A4 E C21RA03	<b>NB01AC113</b>
PR12	HANDLE	2	2		PR12 1102 A4 E C21RA03	<b>NB02AC113</b>
PR12	HANDLE	3	3		PR12 1103 A4 E C21RA03	<b>NB03AC113</b>
PR12	HANDLE	4	4		PR12 1104 A4 E C21RA03	<b>NB04AC113</b>
PR12	LEVER	1	1		PR12 1101 A4 E C21RB03	<b>NB01AC123</b>
PR12	LEVER	2	2		PR12 1102 A4 E C21RB03	<b>NB02AC123</b>
PR12	LEVER	3	3		PR12 1103 A4 E C21RB03	<b>NB03AC123</b>
PR12	LEVER	4	4		PR12 1104 A4 E C21RB03	<b>NB04AC123</b>
PR12	KEY	1	1	Key Removable in both positions	PR12 1101 A4 E C21RC00	<b>NB01AC1C1</b>
PR12	KEY	2	2		PR12 1102 A4 E C21RC00	<b>NB02AC1C1</b>
PR12	KEY	3	3		PR12 1103 A4 E C21RC00	<b>NB03AC1C1</b>
PR12	KEY	4	4		PR12 1104 A4 E C21RC00	<b>NB04AC1C1</b>
PR12	HANDLE/LEGEND	1	2		PR12 2251 D4 E N48MD50	<b>NC51DX80</b>
PR12	HANDLE/LEGEND	2	4		PR12 2252 D4 E N48MD50	<b>NC52DX80</b>
PR12	HANDLE/LEGEND	3	6		PR12 2253 D4 E N48MD50	<b>NC53DX80</b>
PR12	HANDLE/LEGEND	4	8		PR12 2254 D4 E N48MD50	<b>NC54DX80</b>
PR12	HANDLE	1	2		PR12 2251 D4 E C21RA03	<b>NC51DC113</b>
PR12	HANDLE	2	4		PR12 2252 D4 E C21RA03	<b>NC52DC113</b>
PR12	HANDLE	3	6		PR12 2253 D4 E C21RA03	<b>NC53DC113</b>
PR12	HANDLE	4	8		PR12 2254 D4 E C21RA03	<b>NC54DC113</b>
PR12	LEVER	1	2		PR12 2251 D4 E C21RB03	<b>NC51DC123</b>
PR12	LEVER	2	4		PR12 2252 D4 E C21RB03	<b>NC52DC123</b>
PR12	LEVER	3	6		PR12 2253 D4 E C21RB03	<b>NC53DC123</b>
PR12	LEVER	4	8		PR12 2254 D4 E C21RB03	<b>NC54DC123</b>

# CAM SWITCHES

## ► Single Hole Mounting $\varnothing 22\text{mm}$

 Technical Info (p. 224)

### GENERAL USE RATING 12A

IP40 standard - IP65 available upon request



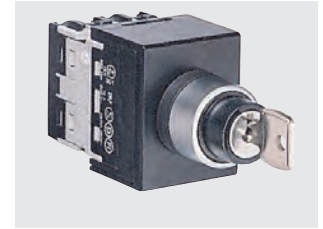
HANDLE WITH LEGEND



HANDLE





LEVER



KEY

Mounting and Dimensions see pg 226 to 229

Switch Series	Operator	Number of poles	Number of contacts	Positions	Designation	Part Number
PR12	HANDLE/LEGEND	1	2		PR12 2201 C8 E N48MD50	<b>NC01GX80</b>
PR12	HANDLE/LEGEND	2	4		PR12 2202 C8 E N48MD50	<b>NC02GX80</b>
PR12	HANDLE/LEGEND	3	6		PR12 2203 C8 E N48MD50	<b>NC03GX80</b>
PR12	HANDLE/LEGEND	4	8		PR12 2204 C8 E N48MD50	<b>NC04GX80</b>
PR12	HANDLE	1	2		PR12 2201 C8 E C21RA03	<b>NC01GC113</b>
PR12	HANDLE	2	4		PR12 2202 C8 E C21RA03	<b>NC02GC113</b>
PR12	HANDLE	3	6		PR12 2203 C8 E C21RA03	<b>NC03GC113</b>
PR12	HANDLE	4	8		PR12 2204 C8 E C21RA03	<b>NC04GC113</b>
PR12	LEVER	1	2		PR12 2201 C8 E C21RB03	<b>NC01GC123</b>
PR12	LEVER	2	4		PR12 2202 C8 E C21RB03	<b>NC02GC123</b>
PR12	LEVER	3	6		PR12 2203 C8 E C21RB03	<b>NC03GC123</b>
PR12	LEVER	4	8		PR12 2204 C8 E C21RB03	<b>NC04GC123</b>
PR12	KEY	1	2	Key Removable in position '0' only	PR12 2201 C8 E C21RC00	<b>NC01GC1C1</b>
PR12	KEY	2	4		PR12 2202 C8 E C21RC00	<b>NC02GC1C1</b>
PR12	KEY	3	6		PR12 2203 C8 E C21RC00	<b>NC03GC1C1</b>
PR12	KEY	4	8		PR12 2204 C8 E C21RC00	<b>NC04GC1C1</b>
PR12	HANDLE/LEGEND	1	3		PR12 2301 A4 E N48MD50	<b>ND01AX80</b>
PR12	HANDLE/LEGEND	2	6		PR12 2302 A4 E N48MD50	<b>ND02AX80</b>
PR12	HANDLE/LEGEND	3	9		PR12 2303 A4 E N48MD50	<b>ND03AX80</b>
PR12	HANDLE/LEGEND	4	12		PR12 2304 A4 E N48MD50	<b>ND04AX80</b>
PR12	HANDLE	1	3		PR12 2301 A4 E C21RA03	<b>ND01AC113</b>
PR12	HANDLE	2	6		PR12 2302 A4 E C21RA03	<b>ND02AC113</b>
PR12	HANDLE	3	9		PR12 2303 A4 E C21RA03	<b>ND03AC113</b>
PR12	HANDLE	4	12		PR12 2304 A4 E C21RA03	<b>ND04AC113</b>
PR12	LEVER	1	3		PR12 2301 A4 E C21RB03	<b>ND01AC123</b>
PR12	LEVER	2	6		PR12 2302 A4 E C21RB03	<b>ND02AC123</b>
PR12	LEVER	3	9		PR12 2303 A4 E C21RB03	<b>ND03AC123</b>
PR12	LEVER	4	12		PR12 2304 A4 E C21RB03	<b>ND04AC123</b>
PR12	KEY	1	3	Key Removable in all positions	PR12 2301 A4 E C21RC00	<b>ND01AC1C1</b>
PR12	KEY	2	6		PR12 2302 A4 E C21RC00	<b>ND02AC1C1</b>
PR12	KEY	3	9		PR12 2303 A4 E C21RC00	<b>ND03AC1C1</b>
PR12	KEY	4	12		PR12 2304 A4 E C21RC00	<b>ND04AC1C1</b>

# CAM SWITCHES

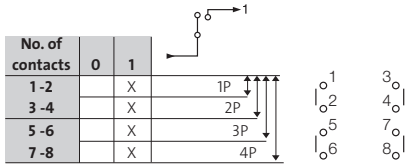
## ▶ ON/OFF SWITCHES

 Technical Info (p. 224)

### PANEL MOUNTING - TWO FIXING SCREWS

IP40 standard - IP65 available upon request

#### Contact Configuration



NB02AQ1



SB04AQ1

























Mounting and Dimensions see pg 226 to 229



ZB04AQ7



HB03AQ7

Switch Series	General use rating - amps	Number of poles	Number of contacts	Positions	Designation	Part Number
PR12	12	1	1		PR12 1101 A4 E Q48PN50	<b>NB01AQ1</b>
PR12	12	2	2		PR12 1102 A4 E Q48PN50	<b>NB02AQ1</b>
PR12	12	3	3		PR12 1103 A4 E Q48PN50	<b>NB03AQ1</b>
PR12	12	4	4		PR12 1104 A4 E Q48PN50	<b>NB04AQ1</b>
PR17	16	1	1		PR17 1101 A4 E Q48PN50	<b>SB01AQ1</b>
PR17	16	2	2		PR17 1102 A4 E Q48PN50	<b>SB02AQ1</b>
PR17	16	3	3		PR17 1103 A4 E Q48PN50	<b>SB03AQ1</b>
PR17	16	4	4		PR17 1104 A4 E Q48PN50	<b>SB04AQ1</b>
PR21	20	1	1		PR21 1101 A4 E Q48PN50	<b>TB01AQ1</b>
PR21	20	2	2		PR21 1102 A4 E Q48PN50	<b>TB02AQ1</b>
PR21	20	3	3		PR21 1103 A4 E Q48PN50	<b>TB03AQ1</b>
PR21	20	4	4		PR21 1104 A4 E Q48PN50	<b>TB04AQ1</b>
PR26	25	1	1		PR26 1101 A4 E Q72MN50	<b>ZB01AQ7</b>
PR26	25	2	2		PR26 1102 A4 E Q72MN50	<b>ZB02AQ7</b>
PR26	25	3	3		PR26 1103 A4 E Q72MN50	<b>ZB03AQ7</b>
PR26	25	4	4		PR26 1104 A4 E Q72MN50	<b>ZB04AQ7</b>
PR40	50	1	1		PR40 1101 A4 E Q72MN60	<b>HB01AQ7</b>
PR40	50	2	2		PR40 1102 A4 E Q72MN60	<b>HB02AQ7</b>
PR40	50	3	3		PR40 1103 A4 E Q72MN60	<b>HB03AQ7</b>
PR40	50	4	4		PR40 1104 A4 E Q72MN60	<b>HB04AQ7</b>
PR63	63	1	1		PR63 1101 A4 E Q72MN60	<b>IB01AQ7</b>
PR63	63	2	2		PR63 1102 A4 E Q72MN60	<b>IB02AQ7</b>
PR63	63	3	3		PR63 1103 A4 E Q72MN60	<b>IB03AQ7</b>
PR63	63	4	4		PR63 1104 A4 E Q72MN60	<b>IB04AQ7</b>

# CAM SWITCHES

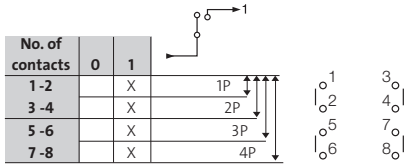
## ▶ ON/OFF SWITCHES

 Technical Info (p. 224)

### IN ENCLOSURE

IP40 standard - IP65 available upon request

#### Contact Configuration



NB04AXQ



TB01AXQ














ZB02AXQ



IB02AAQ

Mounting and Dimensions see pg 226 to 229

Switch Series	General use rating - amps	Number of poles	Number of contacts	Positions	Designation	Part Number
PR12	12	1	1		PR12 1101 A4 BCQ3	<b>NB01AXQ</b>
PR12	12	2	2		PR12 1102 A4 BCQ3	<b>NB02AXQ</b>
PR12	12	3	3		PR12 1103 A4 BCQ3	<b>NB03AXQ</b>
PR12	12	4	4		PR12 1104 A4 BCQ3	<b>NB04AXQ</b>
PR17	16	1	1		PR17 1101 A4 BCQ3	<b>SB01AXQ</b>
PR17	16	2	2		PR17 1102 A4 BCQ3	<b>SB02AXQ</b>
PR17	16	3	3		PR17 1103 A4 BCQ3	<b>SB03AXQ</b>
PR17	16	4	4		PR17 1104 A4 BCQ3	<b>SB04AXQ</b>
PR21	20	1	1		PR21 1101 A4 BCQ3	<b>TB01AXQ</b>
PR21	20	2	2		PR21 1102 A4 BCQ3	<b>TB02AXQ</b>
PR21	20	3	3		PR21 1103 A4 BCQ3	<b>TB03AXQ</b>
PR21	20	4	4		PR21 1104 A4 BCQ3	<b>TB04AXQ</b>
PR26	25	1	1		PR26 1101 A4 BCQ3	<b>ZB01AXQ</b>
PR26	25	2	2		PR26 1102 A4 BCQ3	<b>ZB02AXQ</b>
PR26	25	3	3		PR26 1103 A4 BCQ3	<b>ZB03AXQ</b>
PR26	25	4	4		PR26 1104 A4 BCQ3	<b>ZB04AXQ</b>
PR40	50	1	1		PR40 1101 A4 BCF Q72MN60	<b>HB01AAQ</b>
PR40	50	2	2		PR40 1102 A4 BCF Q72MN60	<b>HB02AAQ</b>
PR40	50	3	3		PR40 1103 A4 BCF Q72MN60	<b>HB03ABQ</b>
PR40	50	4	4		PR40 1104 A4 BCF Q72MN60	<b>HB04ABQ</b>
PR63	63	1	1		PR63 1101 A4 BCF Q72MN60	<b>IB01AAQ</b>
PR63	63	2	2		PR63 1102 A4 BCF Q72MN60	<b>IB02AAQ</b>
PR63	63	3	3		PR63 1103 A4 BCF Q72MN60	<b>IB03ABQ</b>
PR63	63	4	4		PR63 1104 A4 BCF Q72MN60	<b>IB04ABQ</b>

# CAM SWITCHES

## ▶ ON/OFF “MAIN SWITCHES”

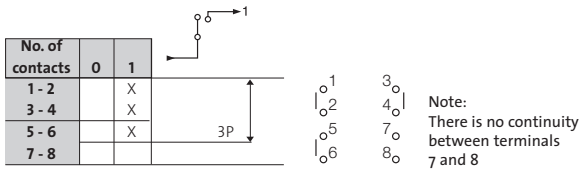


Technical Info (p. 224)

### PANEL MOUNTING - TWO FIXING SCREWS

IP65 standard - IP40 available upon request

#### Contact Configuration - 1103GN

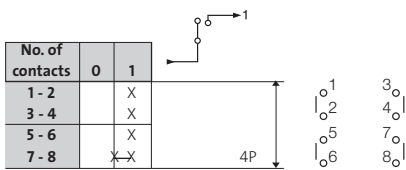


NS3EV493-IP65



TS3EV493-IP65

#### Contact Configuration - 1104GN



ZS3EV733-IP65



IS3EV733-IP65

Mounting and Dimensions see pg 226 to 229

Switch Series	General use rating - amps	Number of poles	Number of contacts	Positions	Designation	Part Number
PR12	12	3	3		PR12 1103 GN E J483PND51	<b>NS3EV493-IP65</b>
PR12	12	4	4		PR12 1104 GN E J483PND51	<b>NS4EV493-IP65</b>
PR17	16	3	3		PR17 1103 GN E J483PND51	<b>SS3EV493-IP65</b>
PR17	16	4	4		PR17 1104 GN E J483PND51	<b>SS4EV493-IP65</b>
PR21	20	3	3		PR21 1103 GN E J483PND51	<b>TS3EV493-IP65</b>
PR21	20	4	4		PR21 1104 GN E J483PND51	<b>TS4EV493-IP65</b>
PR26	25	3	3		PR26 1103 GN E J723MND51	<b>ZS3EV733-IP65</b>
PR26	25	4	4		PR26 1104 GN E J723MND51	<b>ZS4EV733-IP65</b>
PR40	50	3	3		PR40 1103 GN E J723MND61	<b>HS3EV733-IP65</b>
PR40	50	4	4		PR40 1104 GN E J723MND61	<b>HS4EV733-IP65</b>
PR63	63	3	3		PR40 1103 GN E J723MND61	<b>IS3EV733-IP65</b>
PR63	63	4	4		PR40 1104 GN E J723MND61	<b>IS4EV733-IP65</b>

# CAM SWITCHES

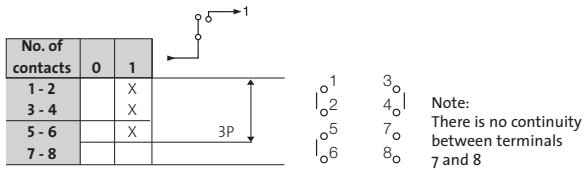
## ▶ ON/OFF “MAIN SWITCHES”

 Technical Info (p. 224)

### IN ENCLOSURE

IP65 standard - IP40 available upon request

#### Contact Configuration - 1103GN

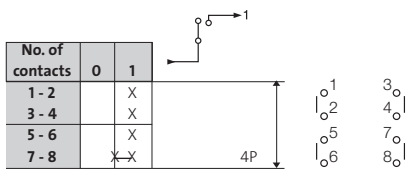


NS3XV483-IP65



SS3XV483-IP65

#### Contact Configuration - 1104GN















ZS3XV483-IP65



HS3BV733-IP65

Mounting and Dimensions see pg 226 to 229

Switch Series	General use rating - amps	Number of poles	Number of contacts	Positions	Designation	Part Number
PR12	12	3	3		PR12 1103 GN BC J48PND51	<b>NS3XV483-IP65</b>
PR12	12	4	4		PR12 1104 GN BC J48PND51	<b>NS4XV483-IP65</b>
PR17	16	3	3		PR17 1103 GN BC J48PND51	<b>SS3XV483-IP65</b>
PR17	16	4	4		PR17 1104 GN BC J48PND51	<b>SS4XV483-IP65</b>
PR21	20	3	3		PR21 1103 GN BC J48PND51	<b>TS3XV483-IP65</b>
PR21	20	4	4		PR21 1104 GN BC J48PND51	<b>TS4XV483-IP65</b>
PR26	25	3	3		PR26 1103 GN BC J48PND51	<b>ZS3XV483-IP65</b>
PR26	25	4	4		PR26 1104 GN BC J48PND51	<b>ZS4XV483-IP65</b>
PR40	50	3	3		PR40 1103 GN BCF J723MND61	<b>HS3BV733-IP65</b>
PR40	50	4	4		PR40 1104 GN BCF J723MND61	<b>HS4BV733-IP65</b>
PR63	63	3	3		PR40 1103 GN BCF J723MND61	<b>IS3BV733-IP65</b>
PR63	63	4	4		PR40 1104 GN BCF J723MND61	<b>IS4BV733-IP65</b>

# CAM SWITCHES

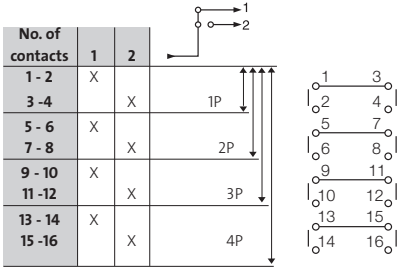
## ▶ CHANGEOVER SWITCHES - WITHOUT OFF

 Technical Info (p. 224)

### PANEL MOUNTING - TWO FIXING SCREWS

IP40 standard - IP65 available upon request

#### Contact Configuration



NCS5DQ1



TC51DQ1



























ZC52DQ7



HC52DQ7

Mounting and Dimensions see pg 226 to 229

Switch Series	General use rating - amps	Number of poles	Number of contacts	Positions	Designation	Part Number
PR12	12	1	2		PR12 2251 D4 E Q48PN50	<b>NC51DQ1</b>
PR12	12	2	4		PR12 2252 D4 E Q48PN50	<b>NC52DQ1</b>
PR12	12	3	6		PR12 2253 D4 E Q48PN50	<b>NC53DQ1</b>
PR12	12	4	8		PR12 2254 D4 E Q48PN50	<b>NC54DQ1</b>
PR17	16	1	2		PR17 2251 D4 E Q48PN50	<b>SC51DQ1</b>
PR17	16	2	4		PR17 2252 D4 E Q48PN50	<b>SC52DQ1</b>
PR17	16	3	6		PR17 2253 D4 E Q48PN50	<b>SC53DQ1</b>
PR17	16	4	8		PR17 2254 D4 E Q48PN50	<b>SC54DQ1</b>
PR21	20	1	2		PR21 2251 D4 E Q48PN50	<b>TC51DQ1</b>
PR21	20	2	4		PR21 2252 D4 E Q48PN50	<b>TC52DQ1</b>
PR21	20	3	6		PR21 2253 D4 E Q48PN50	<b>TC53DQ1</b>
PR21	20	4	8		PR21 2254 D4 E Q48PN50	<b>TC54DQ1</b>
PR26	25	1	2		PR26 2251 D4 E Q72MN50	<b>ZC51DQ7</b>
PR26	25	2	4		PR26 2252 D4 E Q72MN50	<b>ZC52DQ7</b>
PR26	25	3	6		PR26 2253 D4 E Q72MN50	<b>ZC53DQ7</b>
PR26	25	4	8		PR26 2254 D4 E Q72MN50	<b>ZC54DQ7</b>
PR40	50	1	2		PR40 2251 D4 E Q72MN60	<b>HC51DQ7</b>
PR40	50	2	4		PR40 2252 D4 E Q72MN60	<b>HC52DQ7</b>
PR40	50	3	6		PR40 2253 D4 E Q72MN60	<b>HC53DQ7</b>
PR40	50	4	8		PR40 2254 D4 E Q72MN60	<b>HC54DQ7</b>
PR63	63	1	2		PR63 2251 D4 E Q72MN60	<b>IC51DQ7</b>
PR63	63	2	4		PR63 2252 D4 E Q72MN60	<b>IC52DQ7</b>
PR63	63	3	6		PR63 2253 D4 E Q72MN60	<b>IC53DQ7</b>
PR63	63	4	8		PR63 2254 D4 E Q72MN60	<b>IC54DQ7</b>

# CAM SWITCHES

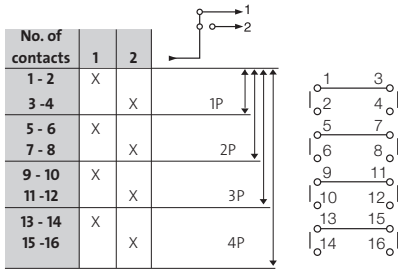
## ▶ CHANGEOVER SWITCHES - WITHOUT OFF

 Technical Info (p. 224)

### IN ENCLOSURE

IP40 standard - IP65 available upon request

#### Contact Configuration



NC51DXQ



SC53DXQ









ZC52DXQ



IC52DBQ

Mounting and Dimensions see pg 226 to 229

Switch Series	General use rating - amps	Number of poles	Number of contacts	Positions	Designation	Part Number
PR12	12	1	2		PR12 2251 D4 BCQ3	<b>NC51DXQ</b>
PR12	12	2	4		PR12 2252 D4 BCQ3	<b>NC52DXQ</b>
PR12	12	3	6		PR12 2253 D4 BCQ3	<b>NC53DXQ</b>
PR12	12	4	8		PR12 2254 D4 BCQ3	<b>NC54DXQ</b>
PR17	16	1	2		PR17 2251 D4 BCQ3	<b>SC51DXQ</b>
PR17	16	2	4		PR17 2252 D4 BCQ3	<b>SC52DXQ</b>
PR17	16	3	6		PR17 2253 D4 BCQ3	<b>SC53DXQ</b>
PR17	16	4	8		PR17 2254 D4 BCQ3	<b>SC54DXQ</b>
PR21	20	1	2		PR21 2251 D4 BCQ3	<b>TC51DXQ</b>
PR21	20	2	4		PR21 2252 D4 BCQ3	<b>TC52DXQ</b>
PR21	20	3	6		PR21 2253 D4 BCQ3	<b>TC53DXQ</b>
PR21	20	4	8		PR21 2254 D4 BCQ3	<b>TC54DXQ</b>
PR26	25	1	2		PR26 2251 D4 BCQ3	<b>ZC51DXQ</b>
PR26	25	2	4		PR26 2252 D4 BCQ3	<b>ZC52DXQ</b>
PR26	25	3	6		PR26 2253 D4 BCQ3	<b>ZC53DXQ</b>
PR26	25	4	8		PR26 2254 D4 BCQ3	<b>ZC54DXQ</b>
PR40	50	1	2		PR40 2251 D4 BCF Q72MN60	<b>HC51DAQ</b>
PR40	50	2	4		PR40 2252 D4 BCF Q72MN60	<b>HC52DBQ</b>
PR40	50	3	6		PR40 2253 D4 BCF Q72MN60	<b>HC53DCQ</b>
PR40	50	4	8		PR40 2254 D4 BCF Q72MN60	<b>HC54DDQ</b>
PR63	63	1	2		PR63 2251 D4 BCF Q72MN60	<b>IC51DAQ</b>
PR63	63	2	4		PR63 2252 D4 BCF Q72MN60	<b>IC52DBQ</b>
PR63	63	3	6		PR63 2253 D4 BCF Q72MN60	<b>IC53DCQ</b>
PR63	63	4	8		PR63 2254 D4 BCF Q72MN60	<b>IC54DDQ</b>

# CAM SWITCHES

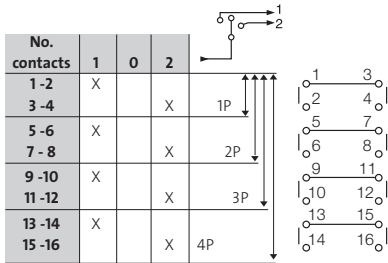
## ▶ CHANGEOVER SWITCHES - WITH OFF

 Technical Info (p. 224)

### PANEL MOUNTING - TWO FIXING SCREWS

IP40 standard - IP65 available upon request

#### Contact Configuration



NC02GQ1



SC04GQ1



























ZC02GQ7



HC03Q7

Mounting and Dimensions see pg 226 to 229

Switch Series	General use rating - amps	Number of poles	Number of contacts	Positions	Designation	Part Number
PR12	12	1	2		PR12 2201 C8 E Q48PN50	<b>NC01GQ1</b>
PR12	12	2	4		PR12 2202 C8 E Q48PN50	<b>NC02GQ1</b>
PR12	12	3	6		PR12 2203 C8 E Q48PN50	<b>NC03GQ1</b>
PR12	12	4	8		PR12 2204 C8 E Q48PN50	<b>NC04GQ1</b>
PR17	16	1	2		PR17 2201 C8 E Q48PN50	<b>SC01GQ1</b>
PR17	16	2	4		PR17 2202 C8 E Q48PN50	<b>SC02GQ1</b>
PR17	16	3	6		PR17 2203 C8 E Q48PN50	<b>SC03GQ1</b>
PR17	16	4	8		PR17 2204 C8 E Q48PN50	<b>SC04GQ1</b>
PR21	20	1	2		PR21 2201 C8 E Q48PN50	<b>TC01GQ1</b>
PR21	20	2	4		PR21 2202 C8 E Q48PN50	<b>TC02GQ1</b>
PR21	20	3	6		PR21 2203 C8 E Q48PN50	<b>TC03GQ1</b>
PR21	20	4	8		PR21 2204 C8 E Q48PN50	<b>TC04GQ1</b>
PR26	25	1	2		PR26 2201 C8 E Q72MN50	<b>ZC01GQ7</b>
PR26	25	2	4		PR26 2202 C8 E Q72MN50	<b>ZC02GQ7</b>
PR26	25	3	6		PR26 2203 C8 E Q72MN50	<b>ZC03GQ7</b>
PR26	25	4	8		PR26 2204 C8 E Q72MN50	<b>ZC04GQ7</b>
PR40	50	1	2		PR40 2201 C8 E Q72MN60	<b>HC01GQ7</b>
PR40	50	2	4		PR40 2202 C8 E Q72MN60	<b>HC02GQ7</b>
PR40	50	3	6		PR40 2203 C8 E Q72MN60	<b>HC03GQ7</b>
PR40	50	4	8		PR40 2204 C8 E Q72MN60	<b>HC04GQ7</b>
PR63	63	1	2		PR63 2201 C8 E Q72MN60	<b>IC01GQ7</b>
PR63	63	2	4		PR63 2202 C8 E Q72MN60	<b>IC02GQ7</b>
PR63	63	3	6		PR63 2203 C8 E Q72MN60	<b>IC03GQ7</b>
PR63	63	4	8		PR63 2204 C8 E Q72MN60	<b>IC04GQ7</b>

# CAM SWITCHES

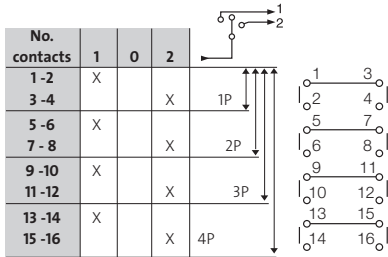
## ▶ CHANGEOVER SWITCHES - WITH OFF

 Technical Info (p. 224)

### IN ENCLOSURE

IP40 standard - IP65 available upon request

#### Contact Configuration



NC02GXQ



TC03GXQ



ZC04GXQ



IC02GBQ

Mounting and Dimensions see pg 226 to 229

Switch Series	General use rating - amps	Number of poles	Number of contacts	Positions	Designation	Part Number
PR12	12	1	2		PR12 2201 C8 BCQ3	<b>NC01GXQ</b>
PR12	12	2	4		PR12 2202 C8 BCQ3	<b>NC02GXQ</b>
PR12	12	3	6		PR12 2203 C8 BCQ3	<b>NC03GXQ</b>
PR12	12	4	8		PR12 2204 C8 BCQ3	<b>NC04GXQ</b>
PR17	16	1	2		PR17 2201 C8 BCQ3	<b>SC01GXQ</b>
PR17	16	2	4		PR17 2202 C8 BCQ3	<b>SC02GXQ</b>
PR17	16	3	6		PR17 2203 C8 BCQ3	<b>SC03GXQ</b>
PR17	16	4	8		PR17 2204 C8 BCQ3	<b>SC04GXQ</b>
PR21	20	1	2		PR21 2201 C8 BCQ3	<b>TC01GXQ</b>
PR21	20	2	4		PR21 2202 C8 BCQ3	<b>TC02GXQ</b>
PR21	20	3	6		PR21 2203 C8 BCQ3	<b>TC03GXQ</b>
PR21	20	4	8		PR21 2204 C8 BCQ3	<b>TC04GXQ</b>
PR26	25	1	2		PR26 2201 C8 BCQ3	<b>ZC01GXQ</b>
PR26	25	2	4		PR26 2202 C8 BCQ3	<b>ZC02GXQ</b>
PR26	25	3	6		PR26 2203 C8 BCQ3	<b>ZC03GXQ</b>
PR26	25	4	8		PR26 2204 C8 BCQ3	<b>ZC04GXQ</b>
PR40	50	1	2		PR40 2201 C8 BCF Q72MN60	<b>HC01GAQ</b>
PR40	50	2	4		PR40 2202 C8 BCF Q72MN60	<b>HC02GBQ</b>
PR40	50	3	6		PR40 2203 C8 BCF Q72MN60	<b>HC03GCQ</b>
PR40	50	4	8		PR40 2204 C8 BCF Q72MN60	<b>HC04GDQ</b>
PR63	63	1	2		PR63 2201 C8 BCF Q72MN60	<b>IC01GAQ</b>
PR63	63	2	4		PR63 2202 C8 BCF Q72MN60	<b>IC02GBQ</b>
PR63	63	3	6		PR63 2203 C8 BCF Q72MN60	<b>IC03GCQ</b>
PR63	63	4	8		PR63 2204 C8 BCF Q72MN60	<b>IC04GDQ</b>

# CAM SWITCHES

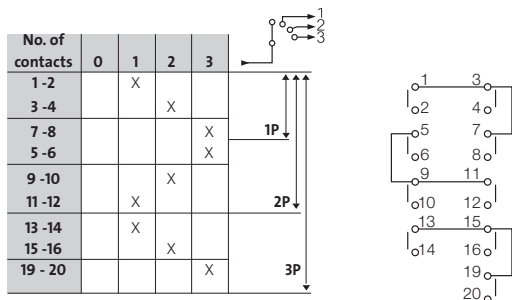
## ▶ THREE WAY SWITCHES - WITH OFF

 Technical Info (p. 224)

### PANEL MOUNTING - TWO FIXING SCREWS

IP40 standard - IP65 available upon request

#### Contact Configuration



ND03AQ1



SD03AQ1










ZD02AQ7



HD02AQ7

Mounting and Dimensions see pg 226 to 229

Switch Series	General use rating - amps	Number of poles	Number of contacts	Positions	Designation	Part Number
PR12	12	1	3		PR12 2301 A4 E Q48PN50	<b>ND01AQ1</b>
PR12	12	2	6		PR12 2302 A4 E Q48PN50	<b>ND02AQ1</b>
PR12	12	3	9		PR12 2303 A4 E Q48PN50	<b>ND03AQ1</b>
PR17	16	1	3		PR17 2301 A4 E Q48PN50	<b>SD01AQ1</b>
PR17	16	2	6		PR17 2302 A4 E Q48PN50	<b>SD02AQ1</b>
PR17	16	3	9		PR17 2303 A4 E Q48PN50	<b>SD03AQ1</b>
PR21	20	1	3		PR21 2301 A4 E Q48PN50	<b>TD01AQ1</b>
PR21	20	2	6		PR21 2302 A4 E Q48PN50	<b>TD02AQ1</b>
PR21	20	3	9		PR21 2303 A4 E Q48PN50	<b>TD03AQ1</b>
PR26	25	1	3		PR26 2301 A4 E Q72MN50	<b>ZD01AQ7</b>
PR26	25	2	6		PR26 2302 A4 E Q72MN50	<b>ZD02AQ7</b>
PR26	25	3	9		PR26 2303 A4 E Q72MN50	<b>ZD03AQ7</b>
PR40	50	1	3		PR40 2301 A4 E Q72MN60	<b>HD01AQ7</b>
PR40	50	2	6		PR40 2302 A4 E Q72MN60	<b>HD02AQ7</b>
PR40	50	3	9		PR40 2303 A4 E Q72MN60	<b>HD03AQ7</b>
PR63	63	1	3		PR63 2301 A4 E Q72MN60	<b>ID01AQ7</b>
PR63	63	2	6		PR63 2302 A4 E Q72MN60	<b>ID02AQ7</b>
PR63	63	3	9		PR63 2303 A4 E Q72MN60	<b>ID03AQ7</b>

# CAM SWITCHES

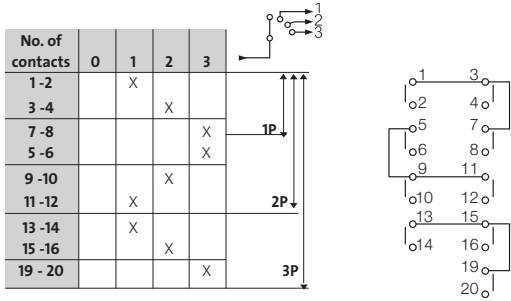
## ▶ THREE WAY SWITCHES - WITH OFF

 Technical Info (p. 224)

### IN ENCLOSURE

IP40 standard - IP65 available upon request

#### Contact Configuration



Mounting and Dimensions see pg 226 to 229



ND02AXQ


















TD01AXQ



ZD01AXQ



HD01ABQ

Switch Series	General use rating - amps	Number of poles	Number of contacts	Positions	Designation	Part Number
PR12	12	1	3		PR12 2301 A4 BCQ3	<b>ND01AXQ</b>
PR12	12	2	6		PR12 2302 A4 BCQ3	<b>ND02AXQ</b>
PR12	12	3	9		PR12 2303 A4 BCQ3	<b>ND03AXQ</b>
PR17	16	1	3		PR17 2301 A4 BCQ3	<b>SD01AXQ</b>
PR17	16	2	6		PR17 2302 A4 BCQ3	<b>SD02AXQ</b>
PR17	16	3	9		PR17 2303 A4 BCQ3	<b>SD03AXQ</b>
PR21	20	1	3		PR21 2301 A4 BCQ3	<b>TD01AXQ</b>
PR21	20	2	6		PR21 2302 A4 BCQ3	<b>TD02AXQ</b>
PR21	20	3	9		PR21 2303 A4 BCQ3	<b>TD03AXQ</b>
PR26	25	1	3		PR26 2301 A4 BCQ3	<b>ZD01AXQ</b>
PR26	25	2	6		PR26 2302 A4 BCQ3	<b>ZD02AXQ</b>
PR40	50	1	3		PR40 2301 A4 BCF Q72MN60	<b>HD01ABQ</b>
PR40	50	2	6		PR40 2302 A4 BCF Q72MN60	<b>HD02ACQ</b>
PR63	63	1	3		PR63 2301 A4 BCF Q72MN60	<b>ID01ABQ</b>
PR63	63	2	6		PR63 2302 A4 BCF Q72MN60	<b>ID02ACQ</b>

# CAM SWITCHES

## ▶ 3 PHASE MOTOR SWITCH, FORWARD/OFF/REVERSE

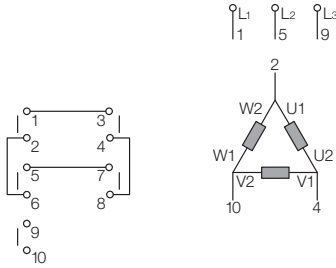
 Technical Info (p. 224)

PANEL MOUNTING - TWO FIXING SCREWS

IP40 standard - IP65 available upon request

Contact Configuration - 9151

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



NZ11GQ1



TZ11GQ1









ZZ11GQ7



IZ11GQ7

Mounting and Dimensions see pg 226 to 229

Switch Series	General use rating - amps	Number of contacts	Positions	Designation	Part Number
PR12	12	5		PR12 9151 C8 E Q48PN50	<b>NZ11GQ1</b>
PR17	16	5		PR17 9151 C8 E Q48PN50	<b>SZ11GQ1</b>
PR21	20	5		PR21 9151 C8 E Q48PN50	<b>TZ11GQ1</b>
PR26	25	5		PR26 9151 C8 E Q72MN50	<b>ZZ11GQ7</b>
PR40	50	5		PR40 9151 C8 E Q72MN60	<b>HZ11GQ7</b>
PR63	63	5		PR63 9151 C8 E Q72MN60	<b>IZ11GQ7</b>

## CAM SWITCHES

### ▶ 3 PHASE MOTOR SWITCH, FORWARD/OFF/REVERSE

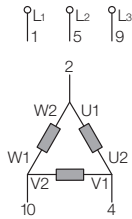
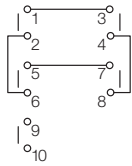
 Technical Info (p. 224)

#### IN ENCLOSURE

IP40 standard - IP65 available upon request

Contact Configuration - 9151

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



NZ11GXQ



SZ11GXQ









ZZ11GXQ



HZ11GCQ

Mounting and Dimensions see pg 226 to 229

Switch Series	General use rating - amps	Number of contacts	Positions	Designation	Part Number
PR12	12	5		PR12 9151 C8 BCQ3	<b>NZ11GXQ</b>
PR17	16	5		PR17 9151 C8 BCQ3	<b>SZ11GXQ</b>
PR21	20	5		PR21 9151 C8 BCQ3	<b>TZ11GXQ</b>
PR26	25	5		PR26 9151 C8 BCQ3	<b>ZZ11GXQ</b>
PR40	50	5		PR40 9151 C8 BCF Q72MN60	<b>HZ11GCQ</b>
PR63	63	5		PR63 9151 C8 BCF Q72MN60	<b>IZ11GCQ</b>





# CAM SWITCHES

## ► 1 SPEED STARTER, 1WAY - 3 PHASE MOTOR

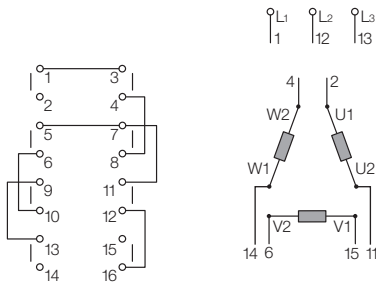
 Technical Info (p. 224)

### PANEL MOUNTING - TWO FIXING SCREWS

IP40 standard - IP65 available upon request

Contact Configuration - 9551

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
15 - 16		X	X



NZ51BQ1



TZ51BQ1









ZZ51BQ7



HZ51BQ7

Mounting and Dimensions see pg 226 to 229

Switch Series	General use rating - amps	Number of contacts	Positions	Designation	Part Number
PR12	12	8		PR12 9551 B4 E Q48PN50	<b>NZ51BQ1</b>
PR17	16	8		PR17 9551 B4 E Q48PN50	<b>SZ51BQ1</b>
PR21	20	8		PR21 9551 B4 E Q48PN50	<b>TZ51BQ1</b>
PR26	25	8		PR26 9551 B4 E Q72MN50	<b>ZZ51BQ7</b>
PR40	50	8		PR40 9551 B4 E Q72MN60	<b>HZ51BQ7</b>
PR63	63	8		PR63 9551 B4 E Q72MN60	<b>IZ51BQ7</b>

# CAM SWITCHES

## ▶ 1 SPEED STARTER, 1WAY - 3 PHASE MOTOR

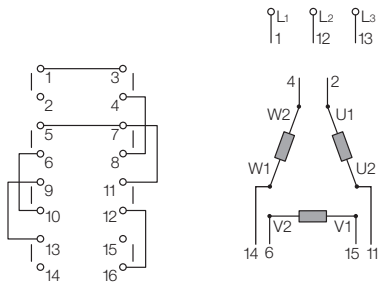
 Technical Info (p. 224)

### IN ENCLOSURE

IP40 standard - IP65 available upon request

Contact Configuration - 9551

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	
15 - 16	X	X	



NZ51BXQ



SZ51BXQ









ZZ51BXQ



HZ51BDQ

Mounting and Dimensions see pg 226 to 229

Switch Series	General use rating - amps	Number of contacts	Positions	Designation	Part Number
PR12	12	8		PR12 9551 B4 BCQ3	<b>NZ51BXQ</b>
PR17	16	8		PR17 9551 B4 BCQ3	<b>SZ51BXQ</b>
PR21	20	8		PR21 9551 B4 BCQ3	<b>TZ51BXQ</b>
PR26	25	8		PR26 9551 B4 BCQ3	<b>ZZ51BXQ</b>
PR40	50	8		PR40 9551 B4 BCF Q72MN60	<b>HZ51BDQ</b>
PR63	63	8		PR63 9551 B4 BCF Q72MN60	<b>IZ51BDQ</b>

# CAM SWITCHES

## ▶ 2 SPEEDS, 1 WAY - 3 PHASE DALHANDER MOTOR

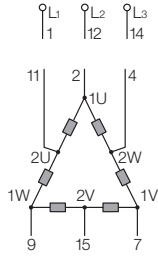
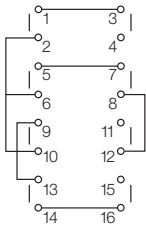
 Technical Info (p. 224)

### PANEL MOUNTING - TWO FIXING SCREWS

IP40 standard - IP65 available upon request

#### Contact Configuration - 9552

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



NZ52CQ1



SZ52BQ1









ZZ52BQ7









HZ52BQ7

Mounting and Dimensions see pg 226 to 229

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

Switch Series	General use rating - amps	Number of contacts	Positions	Designation	Part Number
PR12	12	8		PR12 9552 B4 E Q48PN50	<b>NZ52BQ1</b>
PR17	16	8		PR17 9552 B4 E Q48PN50	<b>SZ52BQ1</b>
PR21	20	8		PR21 9552 B4 E Q48PN50	<b>TZ52BQ1</b>
PR26	25	8		PR26 9552 B4 E Q72MN50	<b>ZZ52BQ7</b>
PR40	50	8		PR40 9552 B4 E Q72MN60	<b>HZ52BQ7</b>
PR63	63	8		PR63 9552 B4 E Q72MN60	<b>IZ52BQ7</b>

PR12	12	8		PR12 9552 C4 E Q48PN50	<b>NZ52CQ1</b>
PR17	16	8		PR17 9552 C4 E Q48PN50	<b>SZ52CQ1</b>
PR21	20	8		PR21 9552 C4 E Q48PN50	<b>TZ52CQ1</b>
PR26	25	8		PR26 9552 C4 E Q72MN50	<b>ZZ52CQ7</b>
PR40	50	8		PR40 9552 C4 E Q72MN60	<b>HZ52CQ7</b>
PR63	63	8		PR63 9552 C4 E Q72MN60	<b>IZ52CQ7</b>

## CAM SWITCHES

### ▶ 2 SPEEDS, 1 WAY - 3 PHASE DALHANDER MOTOR

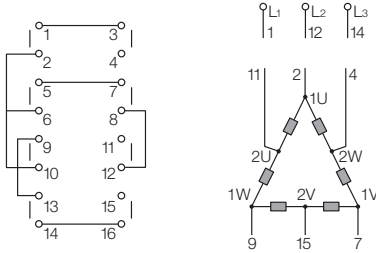
 Technical Info (p. 224)

#### IN ENCLOSURE

IP40 standard - IP65 available upon request

#### Contact Configuration - 9552

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



NZ52CXQ



TZ52BXQ





ZZ52BXQ



HZ52BDQ

Mounting and Dimensions see pg 226 to 229

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

Switch Series	General use rating - amps	Number of contacts	Positions	Designation	Part Number
PR12	12	8		PR12 9552 B4 BCQ3	<b>NZ52BXQ</b>
PR17	16	8		PR17 9552 B4 BCQ3	<b>SZ52BXQ</b>
PR21	20	8		PR21 9552 B4 BCQ3	<b>TZ52BXQ</b>
PR26	25	8		PR26 9552 B4 BCQ3	<b>ZZ52BXQ</b>
PR40	50	8		PR40 9552 B4 BCF Q72MN60	<b>HZ52BDQ</b>
PR63	63	8		PR63 9552 B4 BCF Q72MN60	<b>IZ52BDQ</b>
PR12	12	8		PR12 9552 C4 BCQ3	<b>NZ52CXQ</b>
PR17	16	8		PR17 9552 C4 BCQ3	<b>SZ52CXQ</b>
PR21	20	8		PR21 9552 C4 BCQ3	<b>TZ52CXQ</b>
PR26	25	8		PR26 9552 C4 BCQ3	<b>ZZ52CXQ</b>
PR40	50	8		PR40 9552 C4 BCF Q72MN60	<b>HZ52CDQ</b>
PR63	63	8		PR63 9552 C4 BCF Q72MN60	<b>IZ52CDQ</b>

# CAM SWITCHES

## ▶ AMMETER SWITCHES

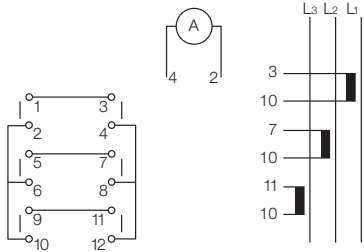
 Technical Info (p. 224)

### 3 CURRENT TRANSFORMERS WITH COMMON POINT

IP40 standard - IP65 available upon request

Contact Configuration - 8151

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





NY11AQ1



NY11AX80

Mounting and Dimensions see pg 226 to 229

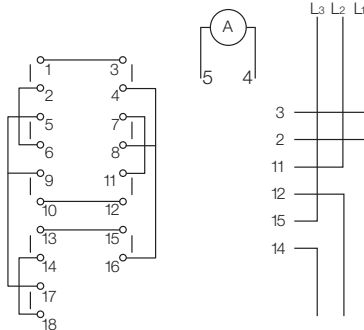
Switch Series	General use rating - amps	Mounting	Number of contacts	Positions	Designation	Part Number
PR12	12	TWO FIXING SCREWS	6		PR12 8151 A4 E Q48PN50	<b>NY11AQ1</b>
PR12	12	Ø22MM SINGLE HOLE	6		PR12 8151 A4 E N48MD50	<b>NY11AX80</b>

### WITHOUT CURRENT TRANSFORMER

IP40 standard - IP65 available upon request

Contact Configuration - 8164

No. of contacts	0	L1	L2	L3
1 - 2	X	X		
3 - 4	X	X		
5 - 6		X	X	
7 - 8		X	X	
9 - 10	X		X	X
11 - 12	X		X	X
13 - 14	X		X	X
15 - 16		X	X	
17 - 18		X	X	





NY14AQ1



NY14AX80

Mounting and Dimensions see pg 226 to 229

Switch Series	General use rating - amps	Mounting	Number of contacts	Positions	Designation	Part Number
PR12	12	TWO FIXING SCREWS	9		PR12 8164 A4 E Q48PN50	<b>NY14AQ1</b>
PR12	12	Ø22MM SINGLE HOLE	9		PR12 8164 A4 E N48MD50	<b>NY14AX80</b>

# CAM SWITCHES

## ▶ AMMETER SWITCHES

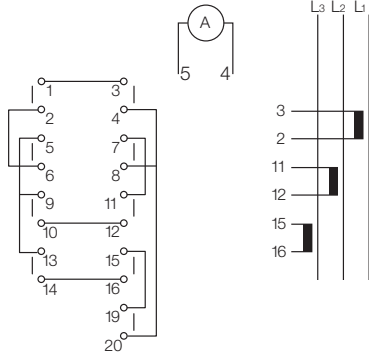
 Technical Info (p. 224)

### WITHOUT COMMON POINT

IP40 standard - IP65 available upon request

Contact Configuration - 8157

No. of CONTACTS	0	L1	L2	L3
1 - 2		X	X	
3 - 4	X	X		
5 - 6	X	X		
7 - 8		X	X	
9 - 10	X	X	X	
11 - 12		X	X	
13 - 14			X	X
15 - 16	X		X	X
19 - 20			X	X





NY17AQ1



NY17AX80

Mounting and Dimensions see pg 226 to 229

Switch Series	General use rating - amps	Mounting	Number of contacts	Positions	Designation	Part Number
PR12	12	TWO FIXING SCREWS	9		PR12 8157 A4 E Q48PN50	<b>NY17AQ1</b>
PR12	12	Ø22MM SINGLE HOLE	9		PR12 8157 A4 E N48MD50	<b>NY17AX80</b>

# CAM SWITCHES

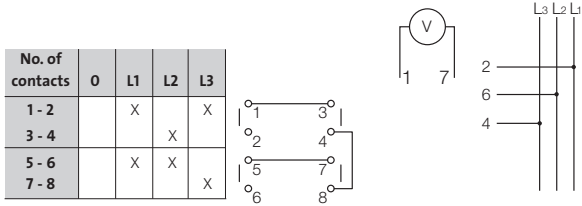
## VOLTMETER SWITCHES

 Technical Info (p. 224)

### WITHOUT NEUTRAL

IP40 standard - IP65 available upon request

Contact Configuration - 8351




NY31AQ1



NY31AX80

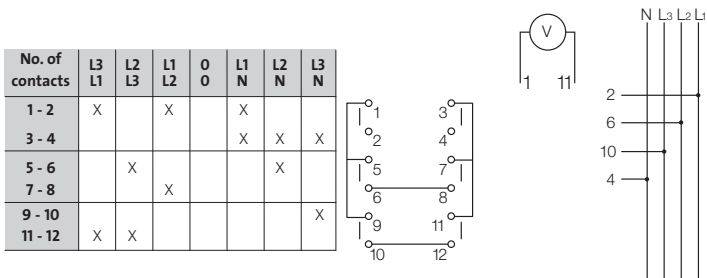
Mounting and Dimensions see pg 226 to 229

Switch Series	General use rating - amps	Mounting	Number of contacts	Positions	Designation	Part Number
PR12	12	TWO FIXING SCREWS	4		PR12 8351 A4 E Q48PN50	<b>NY31AQ1</b>
PR12	12	Ø22MM SINGLE HOLE	4		PR12 8351 A4 E N48MD50	<b>NY31AX80</b>

### WITH NEUTRAL

IP40 standard - IP65 available upon request

Contact Configuration - 8357



NY37AQ1




NY37AX80



NDF03

Mounting and Dimensions see pg 226 to 229

Switch Series	General use rating - amps	Mounting	Number of contacts	Positions	Designation	Part Number
PR12	12	TWO FIXING SCREWS	6		PR12 8357 C8 E Q48PN50	<b>NY37AQ1</b>
PR12	12	Ø22MM SINGLE HOLE	6		PR12 8357 C8 E N48MD50	<b>NY37AX80</b>
PR12	12	DIN-RAIL	6		PR12 8357 C8 E DF	<b>NDF03</b>

# CAM SWITCHES

## ► BINARY CODE SWITCHES

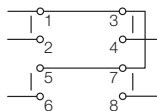
 Technical Info (p. 224)

### 0 TO 11

IP40 standard - IP65 available upon request


Contact Configuration - 6501

No. of contacts	Positions											
	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



NR51UQ1

Mounting and Dimensions see pg 226 to 229

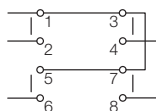
Switch Series	General use rating - amps	Mounting	Number of contacts	Positions	Designation	Part Number
PR12	12	Two FIXING SCREWS	4		PR12 6501 A1 E Q48PN50	NR51UQ1

### 1 TO 12

IP40 standard - IP65 available upon request


Contact Configuration - 6501

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					
7 - 8								X				X



NR52UQ1

Mounting and Dimensions see pg 226 to 229

Switch Series	General use rating - amps	Mounting	Number of contacts	Positions	Designation	Part Number
PR12	12	Two FIXING SCREWS	4		PR12 6502 A1 E Q48PN50	NR52UQ1

# CAM SWITCHES

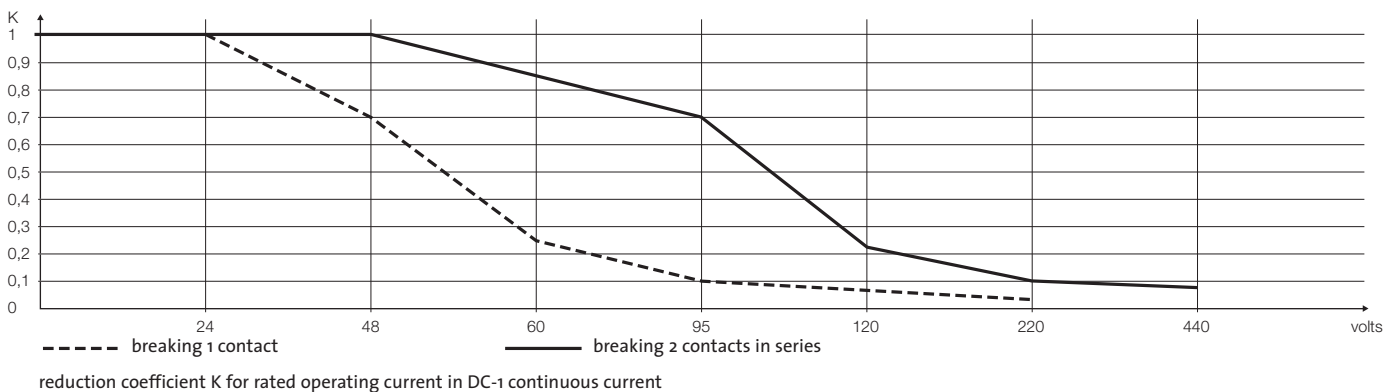
## ► Technical Specifications

UL/CSA Characteristics	PR 12	PR 17	PR 21	PR 26	PR 40	PR 63	PR 125	PR 160
<b>► UL/CSA</b>								
1 PHASE 110/120 VAC	0.5 HP	1 HP	1.5 HP	2 HP	3 HP	5 HP	N/A	N/A
3 PHASE 110/120 VAC 220/240 VAC 440/480 VAC 550/600 VAC	1 HP	2 HP	3 HP	3 HP	7.5 HP	10 HP	N/A	N/A
	3 HP	5 HP	5 HP	7.5 HP	15 HP	20 HP	N/A	N/A
	5 HP	7.5 HP	10 HP	15 HP	30 HP	40 HP	N/A	N/A
	3 HP	10 HP	15 HP	20 HP	30 HP	40 HP	N/A	N/A
GENERAL USE (600 V) (MOTOR CONTROLLER)	12 A	16A	20 A	25 A	50 A	63 A	N/A	N/A
UL 508 RECOGNIZED	YES	YES	YES	YES	YES	YES	No	No
CSA CERTIFIED	YES	YES	YES	YES	YES	YES	No	No
<b>IEC Characteristics</b>								
<b>► For thermal current AC-20 lth I<sub>c</sub>(A)</b> (IEC 60 947-3)	20	25	32	40	63	80	200	250
<b>► Rated operating current for AC-21 A I<sub>e</sub>(A)</b> (IEC 60 947-3) Switching of resistive loads including moderate overloads	16	20	25	32	50	80	160	200
<b>► Rated operating current for AC-15 A I<sub>e</sub>(A) at 230V AC</b> (IEC 60 947-3) Control of electromagnetic loads	6	8	10	12	-	-	-	-
<b>► Performance in AC 23 (kW)</b> (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	-	-
<b>► Performance in AC 3</b> (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	-	-

## CAM SWITCHES

### ► Technical Specifications

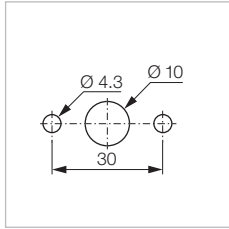
IEC Characteristics	PR 12	PR 17	PR 21	PR 26	PR 40	PR 63	PR 125	PR 160
<b>► Performance in AC 3 - cont.</b>								
- In HP (for reference)								
- 3 x 230 V	4	5.5	5.5	7.5	15	20	-	-
- 3 x 400 V	5.5	10	10	15	25	30	-	-
- 3 x 500 V	7.5	10	10	15	25	30	-	-
- 3 x 690 V	4	10	10	15	25	30	-	-
<b>► Rated insulation voltage <math>U_i</math> (V)</b>								
- 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
<b>► Rated short time withstand current <math>I_{cw}</math> (A) for 1 sec</b>								
	250	400	420	800	1000	1000	2000	2400
<b>► Maximum wire size (mm<sup>2</sup>)</b>								
- rigid	4	6/4 <sup>(1)</sup>	6/4 <sup>(1)</sup>	6	16	16	ø 8 screw for eyelet	
- flexible	2.5	4	4	6	16	16	ø 8 screw for eyelet	
<b>► Maximum wire size (AWG)</b>								
- rigid	10	8/10 <sup>(1)</sup>	8/10 <sup>(1)</sup>	8	6	6		
- flexible	14	12	12	8	6	6		
(1): These values correspond to terminals with jumpers								
<b>► Mechanical durability</b> 1,250,000 operations, maximum rate 150 operations per hour								
<b>► Operating temperature limits</b> - 20°C to + 70°C - 4°F to + 158°F (beyond these limits consult us)								
<b>► Rated operating current in DC-1 low inductive loads (&lt; 1 ms)</b>								
Rated operating current $I_e$ (A) 24 V DC	PR 12	PR 17	PR 21	PR 26	PR 40	PR 63	PR 125	PR 160
	16	20	25	32	50	80	-	-
$I_e$ (A): rated current for breaking 1 contact. For higher voltages you must use a reduction coefficient K in the following graph								



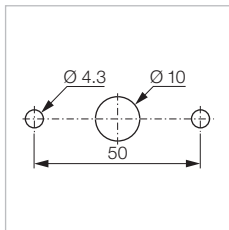
# CAM SWITCHES

## ► Mounting

### 2 SCREWS - 30 OR 50 MM INTERVAL

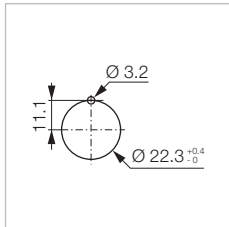


PR 12  
PR 17  
PR 21  
PR 26



PR 40  
PR 63

### SINGLE HOLE MOUNTING Ø 22



For PR12 only

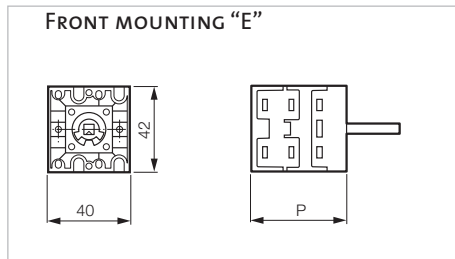
- 48 legend plate with handle
- HANDLE
- LEVER
- KEY



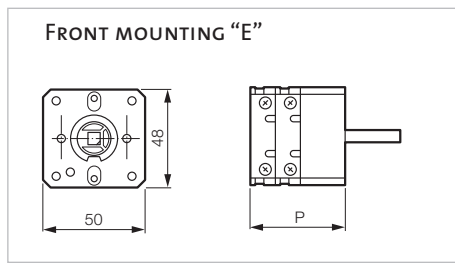
# CAM SWITCHES

## ► Dimensions

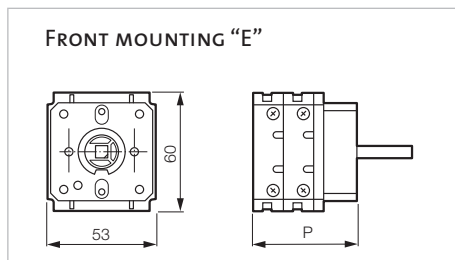
### 2 SCREW FRONT MOUNTING (E)



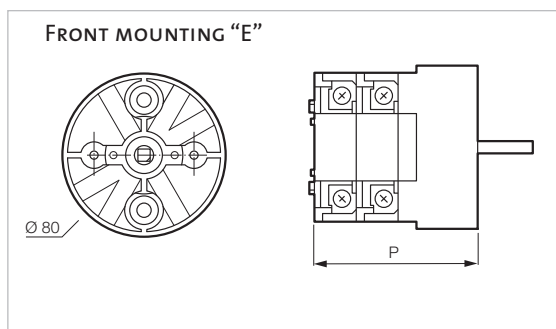
PR 12	No. of contacts	P*
	1-2	36
	3-4	46
	5-6	56
	7-8	66
	9-10	76
	11-12	86



PR 17/21	No. of contacts	P*
	1-2	33
	3-4	45
	5-6	57
	7-8	69
	9-10	81
	11-12	93



PR 26	No. of contacts	P*
	1-2	36
	3-4	51
	5-6	66
	7-8	81
	9-10	96
	11-12	111



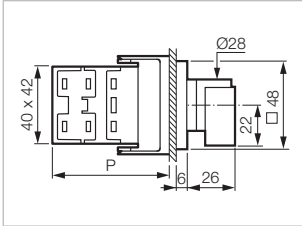
PR 40/63	No. of contacts	P*
	1-2	60
	3-4	80
	5-6	100
	7-8	120
	9-10	140
	11-12	160

# CAM SWITCHES

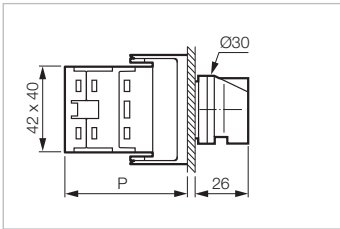
## ► Dimensions

### SINGLE HOLE MOUNTING Ø 22

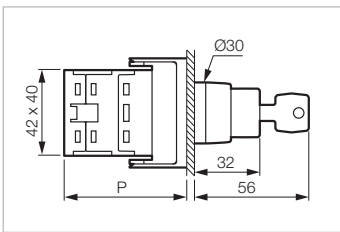
FRONT MOUNTING "E N48MD50"



FRONT MOUNTING "E C21RA03"



FRONT MOUNTING "E C21RC00"



**WITH HANDLE AND  
LEGEND PLATE**

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

**WITH HANDLE  
OR LEVER**

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

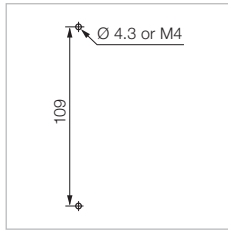
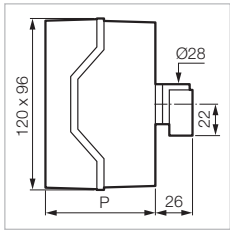
**WITH KEY**

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

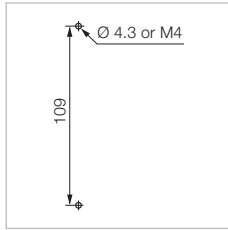
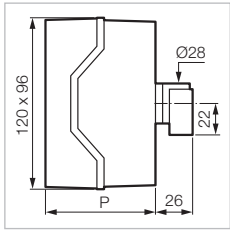
## CAM SWITCHES

### ► Dimensions

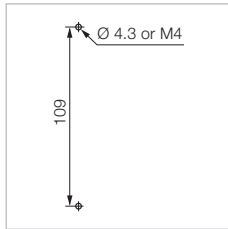
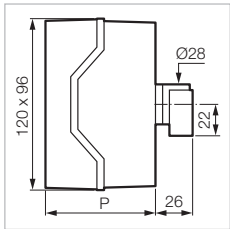
#### ENCLOSURES



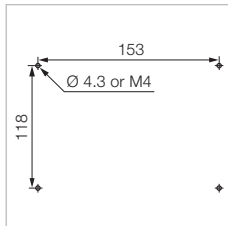
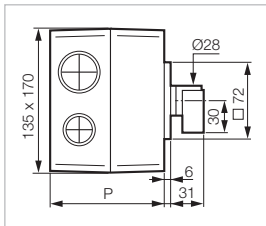
PR 12	No. of contacts	P*
	1-6	77
	7-10	101



PR 17/21	No. of contacts	P*
	1-6	77
	7-10	101



PR 26	No. of contacts	P*
	1-4	77
	5-8	101



PR 40/63	No. of contacts	P*
	1-4	107
	5-8	145