

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

CAM SWITCHES

► Technical Specifications

| UL/CSA Characteristics | PR 12 | PR 17 | PR 21 | PR 26 | PR 40 | PR 63 | PR 125 | PR 160 |
|--|--------|--------|--------|--------|--------|-------|--------|--------|
| ► UL/CSA | | | | | | | | |
| 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 |
| IEC Characteristics | | | | | | | | |
| ► For thermal current AC-20 Ith I_c(A) (IEC 60 947-3) | 20 | 25 | 32 | 40 | 63 | 80 | 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 | 80 | 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 | - | - | - | - |
| ► 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 | - | - |

CAM SWITCHES

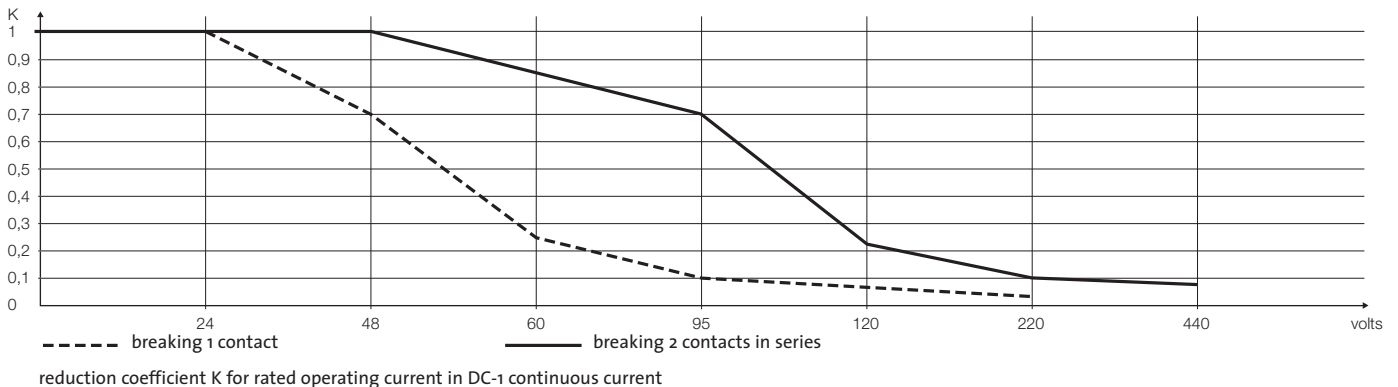
► Technical Specifications

| IEC Characteristics | PR 12 | PR 17 | PR 21 | PR 26 | PR 40 | PR 63 | PR 125 | PR 160 |
|--|-------|---------------------|---------------------|-------|-------|-------|----------------------|--------|
| ► Performance in AC 3 - cont. | | | | | | | | |
| - 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) | | | | | | | | |
| - 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 | 1000 | 1000 | 2000 | 2400 |
| ► 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 | |
| ► Maximum wire size (AWG) | | | | | | | | |
| - rigid | 10 | 8/10 ⁽¹⁾ | 8/10 ⁽¹⁾ | 8 | 6 | 6 | | |
| - flexible | 14 | 12 | 12 | 8 | 6 | 6 | | |
| (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 - 4°F to + 158°F (beyond these limits consult us) | | | | | | | | |

► Rated operating current in DC-1 low inductive loads (< 1 ms)

| | PR 12 | PR 17 | PR 21 | PR 26 | PR 40 | PR 63 | PR 125 | PR 160 |
|---|-------|-------|-------|-------|-------|-------|--------|--------|
| Rated operating current I_e (A) 24 V DC | 16 | 20 | 25 | 32 | 50 | 80 | - | - |

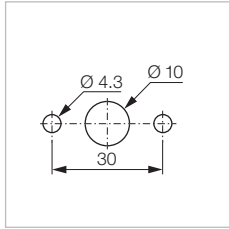
I_e (A): rated current for breaking 1 contact. For higher voltages you must use a reduction coefficient K in the following graph



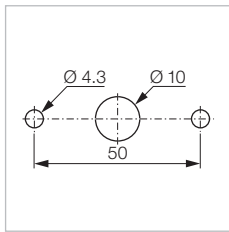
CAM SWITCHES

► Mounting

2 SCREWS - 30 OR 50 MM INTERVAL

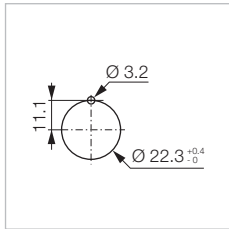


PR 12
PR 17
PR 21
PR 26



PR 40
PR 63

SINGLE HOLE MOUNTING Ø 22



For PR12 only

□ 48 legend plate with handle
HANDLE
LEVER
KEY

