

CAM SWITCHES

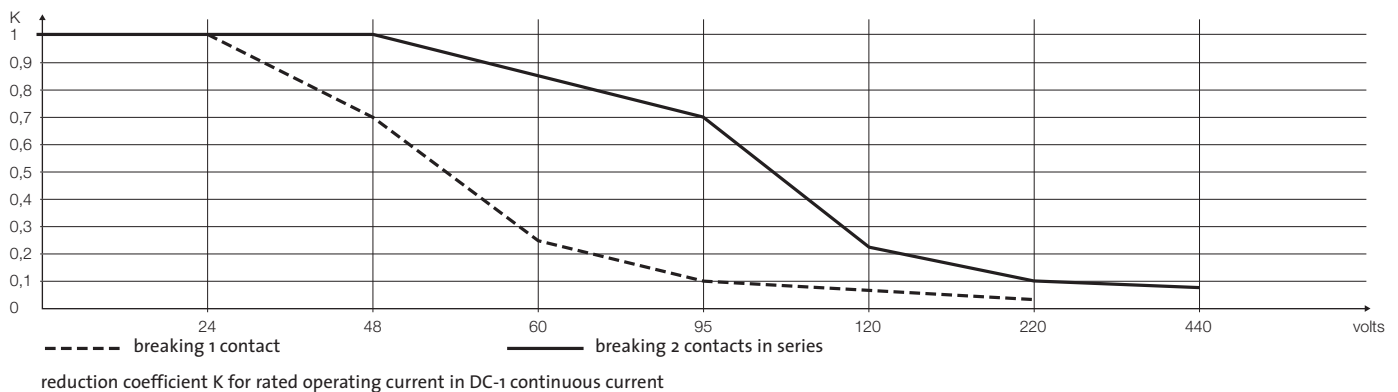
► Technical Specifications

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	1 HP	2 HP	3 HP	3 HP	7.5 HP	10 HP	N/A	N/A
	220/240 VAC	3 HP	5 HP	5 HP	7.5 HP	15 HP	20 HP	N/A	N/A
	440/480 VAC	5 HP	7.5 HP	10 HP	15 HP	30 HP	40 HP	N/A	N/A
	550/600 VAC	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		PR 12	PR 17	PR 21	PR 26	PR 40	PR 63	PR 125	PR 160
► For thermal current AC-20 lth 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	-	-

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► Technical Specifications

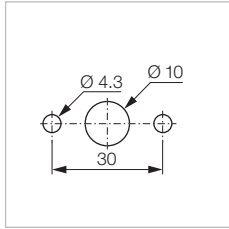
IEC Characteristics	PR 12	PR 17	PR 21	PR 26	PR 40	PR 63	PR 125	PR 160
► Performance in AC 3 - cont.								
- In HP (for reference)								
- 3 x 230 V	4	5.5	5.5	7.5	15	20	-	-
- 3 x 400 V	5.5	10	10	15	25	30	-	-
- 3 x 500 V	7.5	10	10	15	25	30	-	-
- 3 x 690 V	4	10	10	15	25	30	-	-
► Rated insulation voltage Ui (V)								
- Max. rated voltage Ue(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 Icw (A) for 1 sec								
	250	400	420	800	1000	1000	2000	2400
► Maximum wire size (mm ²)								
- 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)								
Rated operating current Ie (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	-	-
Ie (A): rated current for breaking 1 contact. For higher voltages you must use a reduction coefficient K in the following graph								



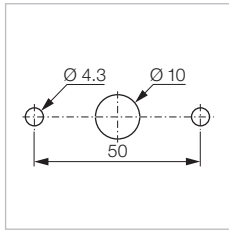
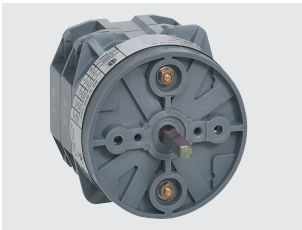
CAM SWITCHES

► Mounting

2 SCREWS - 30 OR 50 MM INTERVAL

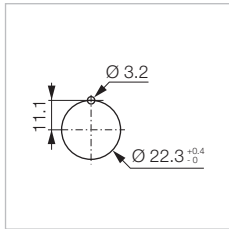


PR 12
PR 17
PR 21
PR 26



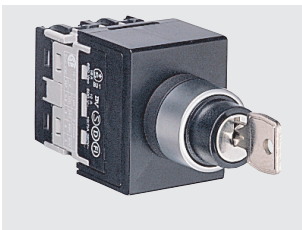
PR 40
PR 63

SINGLE HOLE MOUNTING Ø 22



For PR12 only

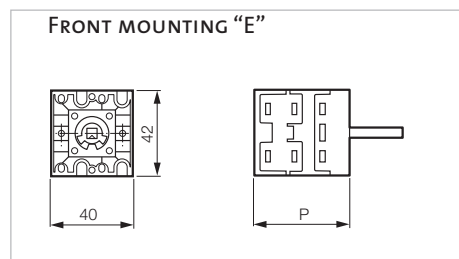
☐ 48 legend plate with handle
HANDLE
LEVER
KEY



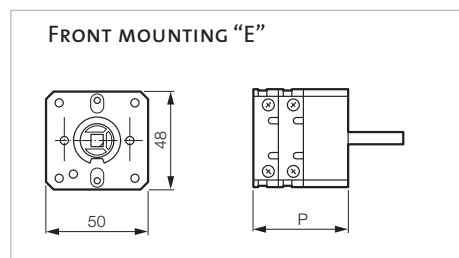
CAM SWITCHES

► Dimensions

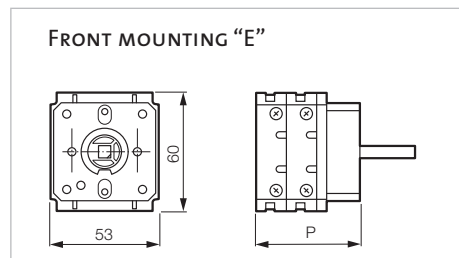
2 SCREW FRONT MOUNTING (E)



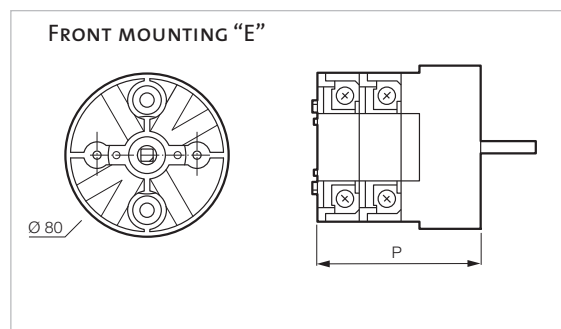
PR 12	No. of contacts	P*
	1-2	36
	3-4	46
	5-6	56
	7-8	66
	9-10	76
	11-12	86



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



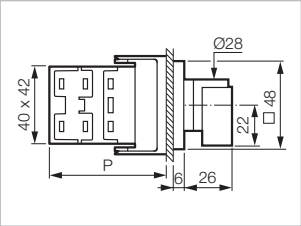
PR 40/63	No. of contacts	P*
	1-2	60
	3-4	80
	5-6	100
	7-8	120
	9-10	140
	11-12	160

CAM SWITCHES

► Dimensions

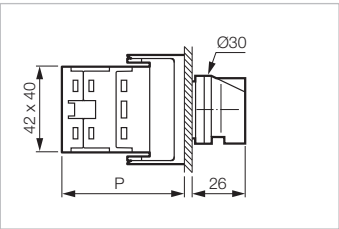
SINGLE HOLE MOUNTING Ø 22

FRONT MOUNTING “E N48MD50”



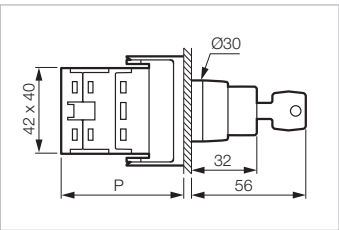
WITH HANDLE AND LEGEND PLATE	No. of contacts	P*
	1-2	51
	3-4	61
	5-6	71
	7-8	81
	9-10	91
	11-12	101

FRONT MOUNTING “E C21RA03”



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

FRONT MOUNTING “E C21RC00”

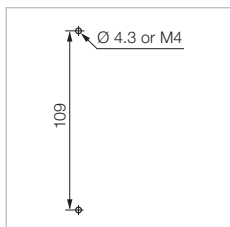
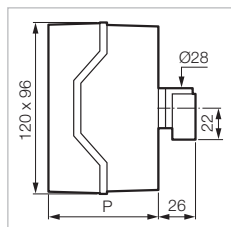


WITH KEY	No. of contacts	P*
	1-2	51
	3-4	61
	5-6	71
	7-8	81
	9-10	91
	11-12	101

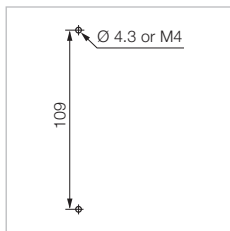
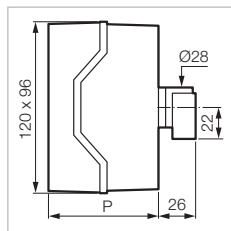
CAM SWITCHES

► Dimensions

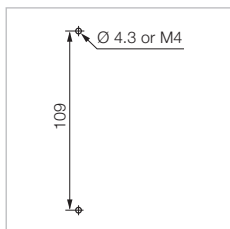
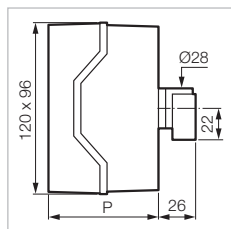
ENCLOSURES



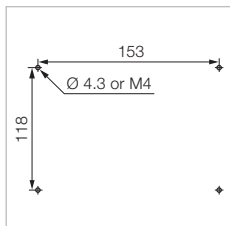
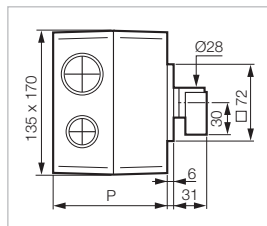
PR 12	No. of contacts	P*
	1-6	77
	7-10	101



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

CAM SWITCHES - CUSTOM REQUEST FORM

APPLICATION

- ☐ Load switching
☐ resistive ☐ inductive

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/HP

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.	Position No.												Terminals 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 ○

MOUNTING

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

STANDARD PRESENTATION

- ☐ Handle: ☐ small
☐ medium
☐ large
- ☐ Lever: ☐ small ☐ large
 Color: ☐ 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

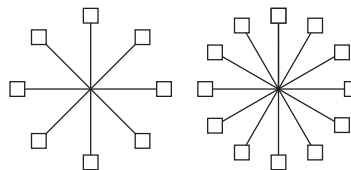
SWITCHING ANGLE

- ☐ Engraving: (use opposite box to specify your engravings)
☐ linear
☐ polygonal

- ☐ Duty label
 (2 x 13 characters) :

.....

MARKING OF POSITIONS



SWITCHING ANGLE

- ☐ 90° ☐ 60° ☐ 45° ☐ 30°
 (indicate positions in boxes)

Blocking-off between and position

One-way rotation: ☐ right ☐ left

YOUR DETAILS

Company:

.....

Name and surname:

.....

Address:

.....

E-mail :

Tel:

Fax:

COMMENTS

YOUR ENGRAVINGS

PADLOCKABLE PRESENTATION

Color: ☐ yellow/red ☐ grey
 Size: ☐ 48 ☐ 72 ☐ 96

OPTIONS

- ☐ Foolproof handle
☐ IP rating: ☐ IP 40 (standard)
☐ IP 55
☐ IP 65
☐ Terminal covers
☐ Tropicalized version