

CAM SWITCHES

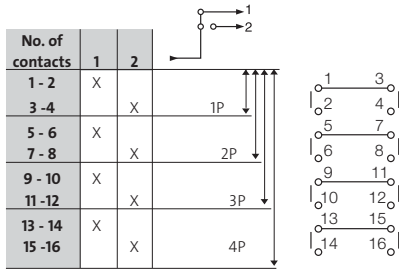
 Technical Info (p. 224)

▶ CHANGEOVER SWITCHES - WITHOUT OFF

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	NC51DXQ
PR12	12	2	4		PR12 2252 D4 BCQ3	NC52DXQ
PR12	12	3	6		PR12 2253 D4 BCQ3	NC53DXQ
PR12	12	4	8		PR12 2254 D4 BCQ3	NC54DXQ
PR17	16	1	2		PR17 2251 D4 BCQ3	SC51DXQ
PR17	16	2	4		PR17 2252 D4 BCQ3	SC52DXQ
PR17	16	3	6		PR17 2253 D4 BCQ3	SC53DXQ
PR17	16	4	8		PR17 2254 D4 BCQ3	SC54DXQ
PR21	20	1	2		PR21 2251 D4 BCQ3	TC51DXQ
PR21	20	2	4		PR21 2252 D4 BCQ3	TC52DXQ
PR21	20	3	6		PR21 2253 D4 BCQ3	TC53DXQ
PR21	20	4	8		PR21 2254 D4 BCQ3	TC54DXQ
PR26	25	1	2		PR26 2251 D4 BCQ3	ZC51DXQ
PR26	25	2	4		PR26 2252 D4 BCQ3	ZC52DXQ
PR26	25	3	6		PR26 2253 D4 BCQ3	ZC53DXQ
PR26	25	4	8		PR26 2254 D4 BCQ3	ZC54DXQ
PR40	50	1	2		PR40 2251 D4 BCF Q72MN60	HC51DAQ
PR40	50	2	4		PR40 2252 D4 BCF Q72MN60	HC52DBQ
PR40	50	3	6		PR40 2253 D4 BCF Q72MN60	HC53DCQ
PR40	50	4	8		PR40 2254 D4 BCF Q72MN60	HC54DDQ
PR63	63	1	2		PR63 2251 D4 BCF Q72MN60	IC51DAQ
PR63	63	2	4		PR63 2252 D4 BCF Q72MN60	IC52DBQ
PR63	63	3	6		PR63 2253 D4 BCF Q72MN60	IC53DCQ
PR63	63	4	8		PR63 2254 D4 BCF Q72MN60	IC54DDQ

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

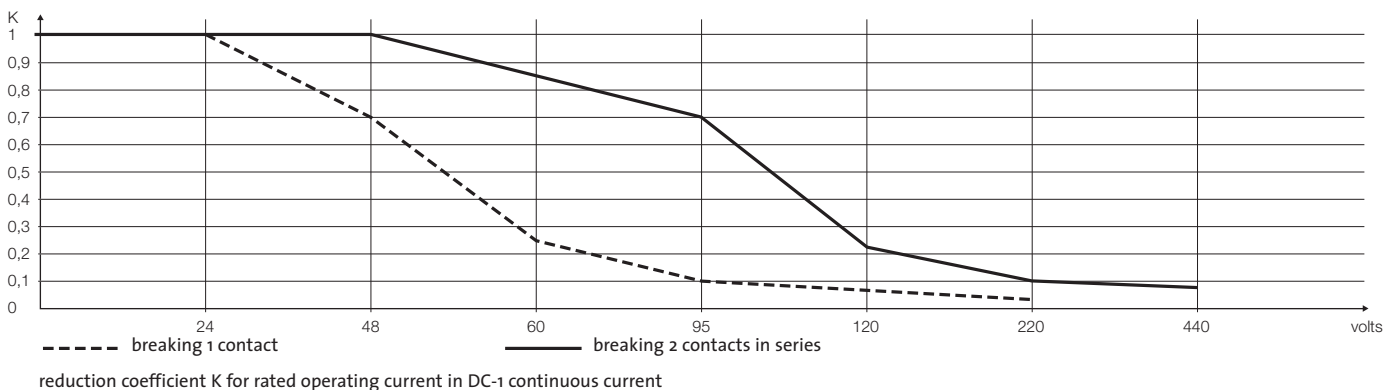
► Technical Specifications

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	-	-

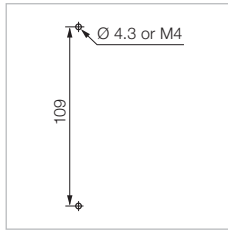
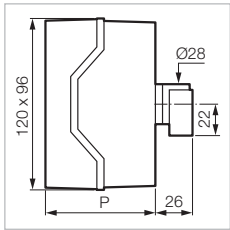
I_e (A): rated current for breaking 1 contact. For higher voltages you must use a reduction coefficient K in the following graph



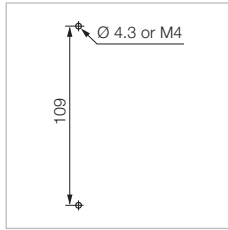
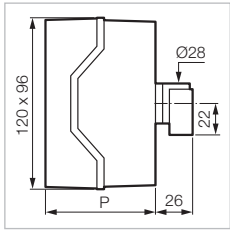
CAM SWITCHES

► Dimensions

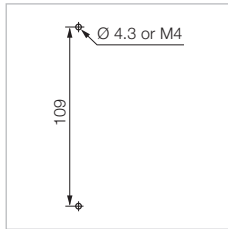
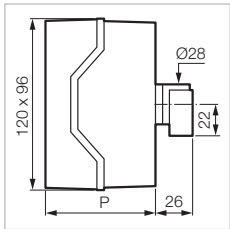
ENCLOSURES



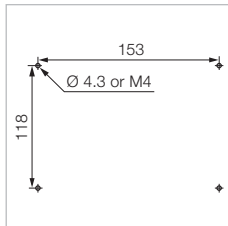
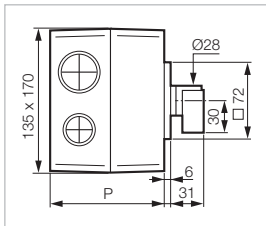
PR 12	No. of contacts	P*
	1-6	77
	7-10	101



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