

Rotary Actuator Switch - Lockable Off in Plastic Enclosure



- Rotary Actuator Switch
- 3 position handle (ON - OFF - LOCK-OFF)
- Plastic Enclosure, IP66 rating
- NEMA Type 1
- FIVE YEAR Warranty
- M12, M16, M20 & M25 entry



Data according to IEC 60947-3, VDE 0660

DC21B Rating							Poles in series	Number of Strings	Weight kg/pcs.	Part Number	Contact Configuration
600V	700V	800V	900V	1000V	1200V	1500V					
16A	16A	16A	13A	9A	6A	3A	2	1	0.43	SI16 PEL64R 2	
25A	23A	20A	16A	11A	8A	4A	2	1	0.43	SI25 PEL64R 2	
32A	27A	23A	20A	13A	10A	5A	2	1	0.43	SI32 PEL64R 2	
29A	16A	16A	13A	9A	6A	3A	2	1	0.49	SI16 PEL64R 2H	
45A	23A	20A	16A	11A	8A	4A	2	1	0.49	SI25 PEL64R 2H	
50A	27A	23A	20A	13A	10A	5A	2	1	0.49	SI32 PEL64R 2H	
16A	16A	16A	13A	9A	6A	3A	2	2	0.46	SI16 PEL64R 4	
25A	23A	20A	16A	11A	8A	4A	2	2	0.46	SI25 PEL64R 4	
32A	27A	23A	20A	13A	10A	5A	2	2	0.46	SI32 PEL64R 4	
16A	16A	16A	16A	16A	16A	16A	4	1	0.47	SI16 PEL64R 4S	
25A	25A	25A	25A	25A	25A	20A	4	1	0.47	SI25 PEL64R 4S	
32A	32A	32A	32A	32A	32A	23A	4	1	0.47	SI32 PEL64R 4S	
16A	16A	16A	16A	16A	16A	16A	4	1	0.47	SI16 PEL64R 4T	
25A	25A	25A	25A	25A	25A	20A	4	1	0.47	SI25 PEL64R 4T	
32A	32A	32A	32A	32A	32A	23A	4	1	0.47	SI32 PEL64R 4T	
16A	16A	16A	16A	16A	16A	16A	4	1	0.47	SI16 PEL64R 4B	
25A	25A	25A	25A	25A	25A	20A	4	1	0.47	SI25 PEL64R 4B	
32A	32A	32A	32A	32A	32A	23A	4	1	0.47	SI32 PEL64R 4B	
16A	16A	16A	13A	9A	6A	3A	2	3	1.57	SI16 PEL64R 6	
25A	23A	20A	16A	11A	8A	4A	2	3	1.57	SI25 PEL64R 6	
32A	27A	23A	20A	13A	10A	5A	2	3	1.57	SI32 PEL64R 6	
16A	16A	16A	13A	9A	6A	3A	2	4	1.62	SI16 PEL64R 8	
25A	23A	20A	16A	11A	8A	4A	2	4	1.62	SI25 PEL64R 8	
32A	27A	23A	20A	13A	10A	5A	2	4	1.62	SI32 PEL64R 8	
29A	29A	29A	29A	29A	29A	16A	8	1	1.67	SI16 PEL64R 4H	
45A	45A	45A	45A	45A	45A	20A	8	1	1.67	SI25 PEL64R 4H	
58A	58A	58A	58A	58A	50A	23A	8	1	1.67	SI32 PEL64R 4H	

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Technical Data

Data according to IEC 60947-3, VDE 0660



Main Contacts		Unit	SI16	SI25	SI32	
Rated thermal current I_{the}		A	16	25	32	
Rated insulation voltage U_i ¹⁾		V	1000	1000	1000	
Rated insulation voltage U_i ²⁾		V	1500	1500	1500	
Distance of contacts (per pole)		mm	8	8	8	
Rated operational current I_e						
1 pole						
	500V	A	9	11	13	
	600V	A	6	8	10	
	800V	A	3	4	5	
	1000V	A	1.5	2	2.5	
2 Pole in series						
2	500V	A	16	25	32	
	600V	A	16	25	32	
	700V	A	16	23	27	
	800V	A	16	20	23	
	900V	A	13	16	20	
	1000V	A	9	11	13	
	1200V	A	6	8	10	
	1500V	A	3	4	5	
2 poles in series + 2 poles parallel 2H						
	500V	A	29	45	58	
	600V	A	29	45	50	
	700V	A	16	23	27	
	800V	A	16	20	23	
	900V	A	13	16	20	
	1000V	A	9	11	13	
	1200V	A	6	8	10	
	1500V	A	3	4	5	
3 poles in series						
	500V	A	16	25	32	
	600V	A	16	25	32	
	700V	A	16	25	32	
	800V	A	16	25	32	
	900V	A	16	25	32	
	1000V	A	16	25	32	
	1200V	A	12	14	16	
	1500V	A	9	11	13	
3 poles in series + 2 poles parallel 3H						
	500V	A	29	(45)	(58)	
	600V	A	29	(45)	(50)	
	700V	A	29	(38)	(45)	
	800V	A	29	(38)	(45)	
	900V	A	29	(38)	(45)	
	1000V	A	29	(38)	(45)	
	1200V	A	12	14	16	
	1500V	A	9	11	13	
4 poles in series						
4	500V	A	16	25	32	
	600V	A	16	25	32	
	700V	A	16	25	32	
	800V	A	16	25	32	
	900V	A	16	25	32	
	1000V	A	16	25	32	
	1200V	A	16	25	32	
	1500V	A	16	20	23	
4 poles in series + 2 poles parallel 4H						
	500V	A	29	45	58	
	600V	A	29	45	58	
	700V	A	29	45	58	
	800V	A	29	45	58	
	900V	A	29	45	58	
	1000V	A	29	45	58	
	1200V	A	29	45	50	
	1500V	A	16	20	23	
Rated operational current I_e						
AC21B	2,4	U_e max. 440V	A	16	25	32
	2H	U_e max. 440V	A	29	45	58

1) Suitable at 1000V for: earthed-neutral systems, overvoltage category I to III, pollution degree 3 (standard-industry); $U_{imp}=8kV$
2) Suitable at 1500V for: earthed-neutral systems, overvoltage category I to III, pollution degree 2 (min. IP55); $U_{imp}=8kV$.
Data for other conditions on request.

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Main Contacts		Unit	SI16	SI25	SI32
Rated operational current I_e					
	500V	A	1	1.25	1.5
1 pole 1	600V	A	0.5	0.75	1
	800V	A	0.3	0.4	0.5
	1000V	A	0.15	0.2	0.25
2 poles in series 2	500V	A	7	8	9
	600V	A	5.5	6	6.5
	800V	A	2	2.5	3
3 poles in series 3	500V	A	16	25	27
	600V	A	16	23	25
	800V	A	6.5	7	7.5
4 poles in series	500V	A	16	25	32
	600V	A	16	25	27.5
	800V	A	11.5	12	12.5
	1000V	A	8	9	10
Rated conditional short-circuit current		kA_{eff}	5	5	5
Max. fuse size gl (gG)		A	40	63	80
Mechanical Life		$\times 10^5$	10	10	10
Rated short-time withstand current (1s) I_{CW}		A	800	900	1000
withstand current (1s)		A	1300	1500	1700
Short circuit making capacity I_{CW}		A	800	900	1000
making capacity		A	1300	1500	1700
Maximum cable cross sections		(inc. jumper SIV-B1)			
Solid or stranded		mm^2	4 - 16	4 - 16	4 - 16
Flexible		mm^2	4 - 10	4 - 10	4 - 10
Flexible (+ multicore cable end)		mm^2	4 - 10	4 - 10	4 - 10
Size of terminal screw			M4 Pz2	M4 Pz2	M4 Pz2
Tightening torque		Nm	1.2 - 1.8	1.2 - 1.8	1.2 - 1.8
Maximum ambient temperature					
Operation		$^{\circ}C$	-40 to + 65 (de-rating for +70 = 32A to 30A, 25A to 24A, 16A to 15A)		
Open		$^{\circ}C$			
Enclosed		$^{\circ}C$	-40 to + 45		
Storage		$^{\circ}C$	-50 to + 90		
Power loss per switch at $I_{e,max}$ DC21B					
2		W	2	5	8
4		W	4	10	16
6		W	6	15	24
8		W	8	20	32
2H		W	3.5	8.5	14
3H		W	5.5	13	21
4H		W	7	17	28

Main Contacts		Unit	SI16	SI25	SI32
Ampere-Rating "General use" (AC)					
1 pole 1	350V	A	4	5	6
	500V	A	4	5	6
	600V	A	4	5	6
2 poles in series 2	350V	A	16	20	25
	500V	A	16	20	25
	600V	A	16	20	25
2 poles in series + 2 poles parallel 3	350V	A	29	45	58
	500V	A	29	38	40
	600V	A	21	23	25
3 poles in series 3	350V	A	16	25	32
	500V	A	16	25	32
	600V	A	16	25	32
4 poles in series 4	350V	A	16	25	32
	500V	A	16	25	32
	600V	A	16	25	32
Fuse size (RK5) Industrial Control Switch					
5kA / 600V		A	40	60	80
Maximum cable cross sections (incl. jumper SIV-B1)					
Solid or stranded		AWG	12 - 10	12 - 10	12 - 10
Flexible		AWG	12 - 6	12 - 6	12 - 6
Flexible (+ multicore cable end)		AWG	12 - 6	12 - 6	12 - 6
Size of terminal screw			M4 Pz2	M4 Pz2	M4 Pz2
Tightening torque		lb.inch	11 - 16	11 - 16	11 - 16

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Dimensions

SI16 PEL64R
SI25 PEL64R
SI32 PEL64R

..2, ..2H, ..4

..6, ..8, ..3H, ..4H

