

S3 Power-PCB-Relay 1-pole 16A – horizontal version

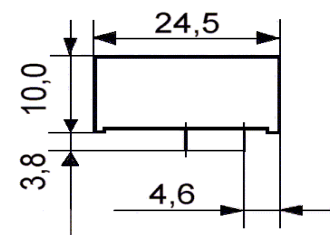
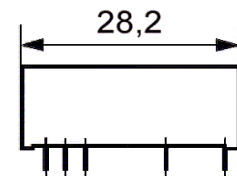


Technical data		
Contact data		
Type of contact		Single contact
Version		Horizontal
Configuration		1 CO / 1 NO
Rated voltage/max. breaking voltage	VAC	250 / 440
Rated current	A	16
Make current (max. 5s)	A	25
Rated breaking capacity (cos φ = 1)	VA / W	4300 / 350
Contact resistance	mΩ	≤ 50
Contact material		AgCdO / AgSnO



General data		
Mechanical life	>Operations	30 x 10 ⁶
Electrical life rated voltage	>Operations	1 x 10 ⁵
Max. Switching rate at rated voltage	Operations/h	900
Operate time / Release time	Approx.ms	8 / 5
Dielectric strength contact/ coil	≥ VAC _{rms}	4000
Dielectric strength open contact	≥ VAC _{rms}	1000
Clearance / creepage	mm	> 8 / 8
Insulation group		C / 250
Ambient temperature	°C	-40...+ 85
Position		Any
Solder bath temperature/-duration	°C / sec	260 / 10
Approvals		VDE, UL, CSA, S, N, D, Fi

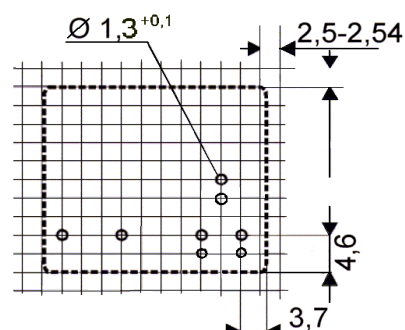
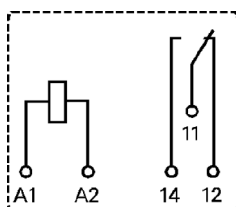
Dimensions



Coil data at + 20°C		
Nominal voltage	VDC	5...110
Nominal coil power	Approx. W	0,5
Operate power	Approx. W	0,19..0,32
Pull-in voltage	% of U _N	≤ 70
Drop-in voltage	% of U _N	≥ 10

U _N (VDC)	R (Ohm)	U _{PI} (VDC)		U _{DO} (VDC)	I _N (mA)
		AK	UK		
5	50 ± 10 %	≤ 3,3	≤ 3,5	≥ 0,5	100,0
6	70 ± 10 %	≤ 3,8	≤ 4,2	≥ 0,6	85,7
12	250 ± 10 %	≤ 6,9	≤ 7,8	≥ 1,2	48,0
24	1.100 ± 10 %	≤ 15,0	≤ 17,0	≥ 2,4	21,8
36	2.500 ± 10 %	≤ 22,6	≤ 25,5	≥ 3,6	14,4
48	3.700 ± 15 %	≤ 30,5	≤ 34,4	≥ 4,8	13,0
60	6.000 ± 15 %	≤ 37,8	≤ 42,6	≥ 6,0	10,0
110	23.200 ± 15 %	≤ 77,0	≤ 77,0	≥ 11,0	4,7

Wiring / PCB-layout



View on solder pins. Dimensions in mm.

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Ordering key

1.	2.	3.	4.	5.	6.	7.	8.	9.
S3	0	0	1	B	7	2	4	R

Character 1 Type S3 = Horizontal
 Character 2 Configuration 0 = Number of NO
 till 4 0 = Number of NC
 1 = **Number CO**
 of
 Character 5 Contact material **B = AgCdO**
 E = AgSnO
 Character 6 Pinning 7 = 16A double-pinning horizontal
 Character 7 Coil code 05 = 5 VDC **06 = 6 VDC** 12 = 12 VDC 24 = 24 VDC
 till 8 36 = 36 VDC 48 = 48 VDC 60 = 60 VDC 79 = 110 VDC
 Character 9 Special version R = Remanence with 1 winding

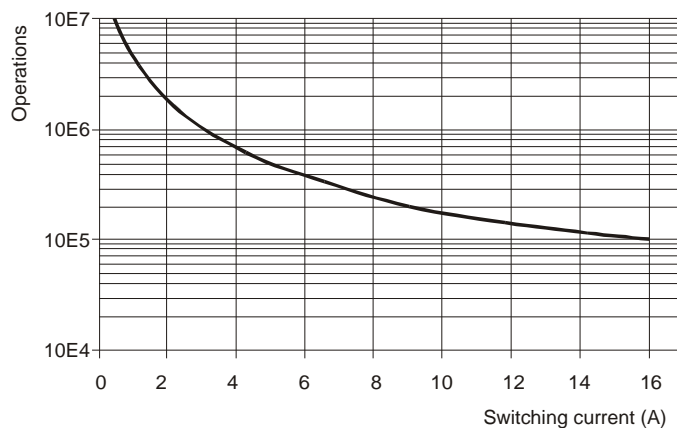
Bold = Standard types – further details on request

Ordering key, example: S3 100 B 724

Power-PCB-Relay, horizontal, 1 NO, 16A, AgCdO, 24 VDC coil

Electrical Specification

Electrical life AC 1



Max. DC load breaking capacity

