

Datasheet

SPDT PCB Mount Non-Latching Relay, 20 A, 24V

RS Stock number [800-4508](#)

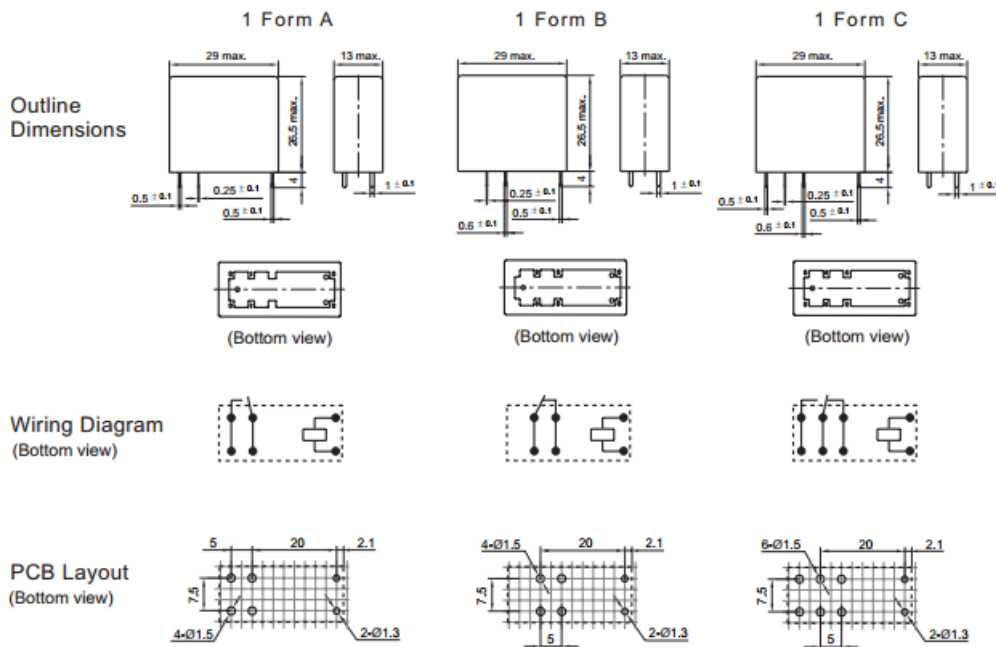
Dimensions: mm



File No.:E134517

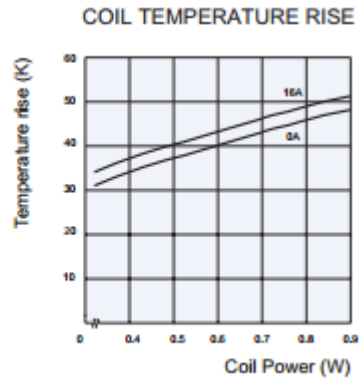
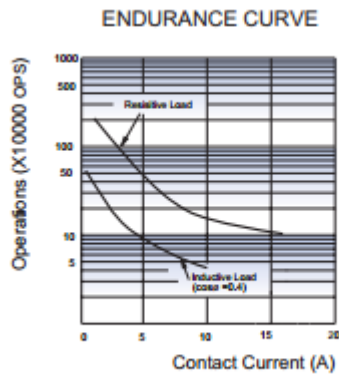


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- Remark: 1) In case of no tolerance shown in outline dimension: outline dimension $\leq 1\text{mm}$, tolerance should be $\pm 0.2\text{mm}$; outline dimension $> 1\text{mm}$ and $\leq 5\text{mm}$, tolerance should be $\pm 0.3\text{mm}$; outline dimension $> 5\text{mm}$, tolerance should be $\pm 0.4\text{mm}$.
 2) The tolerance without indicating for PCB layout is always $\pm 0.1\text{mm}$.
 3) The width of the gridding is 2.5mm.

Characteristic Curves



Features

20A switching capability

kV dielectric strength (between coil and contacts)

Sockets available

Wash tight and flux proofed types available

Environmental friendly product (RoHS compliant)

Outline dimensions: (29.0 x13.0 x 26.55) mm



Contact Data

Contact arrangement: 2A, 2C, 1C

Contact resistance: 50m Ω max. (at 1A 24VDC)

Contact rating (Res.load): 16A 277VAC/24VDC

1HP 40VAC

TV-8 125VAC (NO only)

Contact material: AgSnO₂, AgCdO

Max. switching voltage: 277VAC /30VDC

Max. switching current: 20A

Max. switching power: 5540VAC/ 480W

Mechanical endurance: 1x10(7) OPS

Electrical endurance: 1x10(5) OPS

Characteristics

Insulation resistance: 1000M Ω (at 500VDC)

Dielectric Strength: Between coil & contacts 4000VAC 1min

Between open contacts 1000VAC 1min

Operate time (at nomi. Volt.): 15ms max

Release time (at nomi. Volt.): 5ms max

Shock resistance: Functional 100m/s (10g)

Destructive 1000m/s (100g)

Vibration resistance: 10Hz to 55Hz 1.5mm DA

Humidity: 98% RH +40degC

Ambient temperature: -40degC to 85deg

Termination: PBC

Unit weight: Approx. 18.5g

Construction: Wash tight

Flux Proof

Coil

Coil power: Standard Approx. – 720mW

W Type Approx. – 530mW



COIL DATA at 23°C

Sensitive Type (530mW)				
Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Max. Allowable Voltage VDC	Coil Resistance Ω
5	3.60	0.5	7.0	47 x (1±10%)
6	4.30	0.6	8.4	68 x (1±10%)
9	6.50	0.9	12.6	160 x (1±10%)
12	8.60	1.2	16.8	275 x (1±10%)
18	13.0	1.8	25.2	620 x (1±10%)
24	17.3	2.4	33.6	1100 x (1±10%)
48	34.6	4.8	67.2	4170 x (1±10%)
60	43.2	6.0	84.0	7000 x (1±10%)

COIL DATA at 23°C

Standard Type (720mW)				
Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Max. Allowable Voltage VDC	Coil Resistance Ω
5	3.6	0.5	5.5	36 x (1±10%)
6	4.3	0.6	6.6	50 x (1±10%)
9	6.5	0.9	9.9	115 x (1±10%)
12	8.6	1.2	13.2	200 x (1±10%)
18	13.0	1.8	19.8	460 x (1±10%)
24	17.3	2.4	26.4	820 x (1±10%)
48	34.6	4.8	52.8	3300 x (1±10%)
60	43.2	6.0	66.0	5100 x (1±10%)

Notes: 1) When requiring pick-up voltage < 72% of nominal voltage, special order allowed.
 2) Suggesting to use the sensitive type.

Safety Approval Ratings

UL&CUR	20A 24VDC
	16A 277VAC
	12A 277VAC
	1HP 240VAC
	20A 277VAC (NO only)
TV-8 125VAC (NO only)	
TÜV	16A 250VAC
	16A 30VDC

Notes: Only some typical ratings are listed above. If more details are required, please contact us.