



- DPST-NO rated 2 x 40A / 277VAC
- Designed for EV charging & PV systems
- PCB mounting miniature case size
- 3.2mm contact gap
- Complies with IEC62955
- Optional auxiliary NC contact

		C US Compliant			
Contacts		Ordering Code			
Contact arrangement	DPST-NO-DM (+ SPST-NC optional aux.)				
Contact material	AgSnO ₂	D E 4 0 - 5 0 A 2 - 2 5 - 1 0 1 2			
Rated current @ 277VAC AC1	2 x 40A (main contacts)*, 1A (aux.)				
	*80A continuous using both sets of contacts, at 25°C ambient and temperature rise in accordance with IEC(EN) 60947	Series Coil code:			
Max. switching voltage / current	277VAC (50/60Hz) / 40A	See table 1			
Max. breaking capacity	11080VA (main contacts), 277VA (aux.)	Contact material			
Breaking capacity IEC 62955	500A 277VAC	50: AgSnO ₂			
Initial contact resistance main contacts	$10m\Omega$ at 6VDC / 20A : $100m\Omega$ at 6VDC / 1A				
Inrush current IEC 61851	230A for 100μs	Contact arrangement			
Surge current IEC 62955	3kA fo 8/20μs	22: DPST-NO-DM (2 Form X)			
Short circuit tests IEC 62955	Ip ≥ 1.85KA, I²t ≥ 4.5kA²s	A2: DPST-NO-DM (2 Form X)			
IEC 62752	Ip ≥ 1.5KA, I²t ≥ 6kA²s	+ SPST-NC auxiliary contact			
IEC 62052	I²t ≥ 9kA²s				
Electrical life (1s ON / 9s OFF 85°C) cycles	> 10,000 at 40A : > 30,000 at 35A / 277VAC	Mounting & terminations			
	≥ 50,000 at 16A / 277VAC	25: PCB mount, Plain cover - Flux tight to RTII			
Mechanical life cycles	> 1 x 10 ⁶ (no load)				
Coil		Auxiliary Contact Details			
Nominal operating range DC	6, 9, 12, 24, 48V See Table 1	Contact form: SPST-NC (1 Form B)			
Rated power consumption	1.88W See Table 1	Contact material: AgNi			
Operate / Release time typical	≤ 30ms / ≤ 10ms	Contact rating: 1A 277VAC, 1A 30VDC (resistive)			
Insulation		Max switching power: 277VA / 30W			
Coil insulaton system	RTII, IEC 31, CLASS F 155°C	Initial contact resistance: ≤ 100mΩ (6VDC 1A)			
Insulation resistance	> 1000 MΩ at 500VDC, 50%RH	Contact gap: ≥ 0.8mm			
Insulation distance between main contacts and coil	> 10.9mm / 12.6mm (clearance / creepage)				
between main contacts	5.5mm / 8.0mm (clearance / creepage)				
Surge voltage between main contacts and coil	10,000V (1.2/50μs)				
between coil and auxiliary contacts	2500V (1.2/50μs)				
Dielectric strength coil to main contacts	5,000V _{rms} (50/60Hz, 1min, <1mA leakage)				
between main contact sets	5,000V _{rms} (50/60Hz, 1min, <10mA leakage)				
open main contacts	2,000V _{rms} (50/60Hz, 1min, <1mA leakage)				
between main contacts and auxiliary contacts	2,000V _{rms} (50/60Hz, 1min, <1mA leakage)				
between auxilary contacts and coil	2,000V _{rms} (50/60Hz, 1min, <1mA leakage)				
between open auxiliary contacts	1,000V _{rms} (50/60Hz, 1min, <10mA leakage)				

Specifications are subject to change without notice. E&OE.

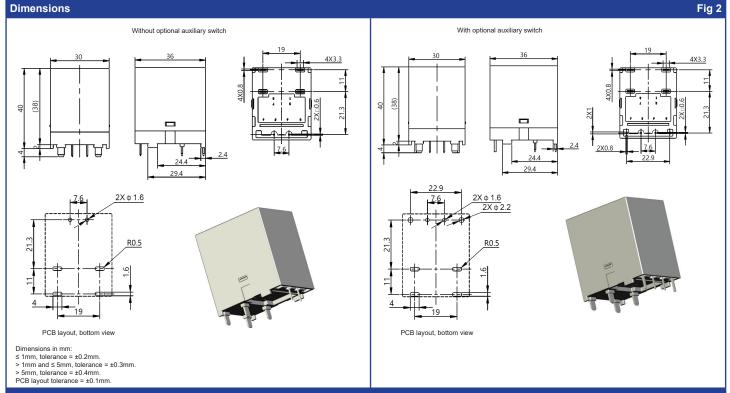




Environmental	
Ambient temperature operating	-40 to +85°C (without icing or condensation)
Ambient humidity	5% RH to 85% RH
Shock resistance Destruction	980 m/s² (100G)
Malfunction	98 m/s ² (10G)
Vibration resistance Destruction	10Hz to 55Hz, 1.5mm (DA)
Malfunction	10Hz to 55Hz, 1.0mm (DA)
Enclosure UL 94V-0	V. (Vented), Flux-tight RTII
Dimensions L x W x H	36 x 30 x 40mm approx.(excluding terminals)
Weight approx.	66g

DC Coil Data : (@ 23°C) Table 1								
Coil code	Nominal voltage U _n (VDC)	Must operate voltage max. (VDC)	Must release voltage min. (VDC)	Coil resistance Ω ±10%	Coil Current (mA) (at nominal voltage)	Coil power (W)	Holding Voltage. (at max ambient temperature 85°C)	
1006	6	4.5	0.3	19.1	314	1.88	We recommend using a reduced coil holding voltage of 50 - 60% of U _n at +85°C. Please note the relay requires 100ms after reduced operating voltage is applied to achieve maximum stability.	
1009	9	6.75	0.45	43.1	209			
1012	12	9.0	0.6	76.6	157			
1024	24	18.0	1.2	306.4	78			
1048	48	36.0	2.4	1225.5	39			





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