



- SPST-NO Rated 20A / 450VDC
- Will carry 40A / 450VDC for 20 mins (Fig.1)

UK (F L RoHS

- Magnetic arc blowout
- Miniature case size
- PCB mounting & chassis mounting
- Fits Mini-ISO footprint
- Pre-charge or discharge relay

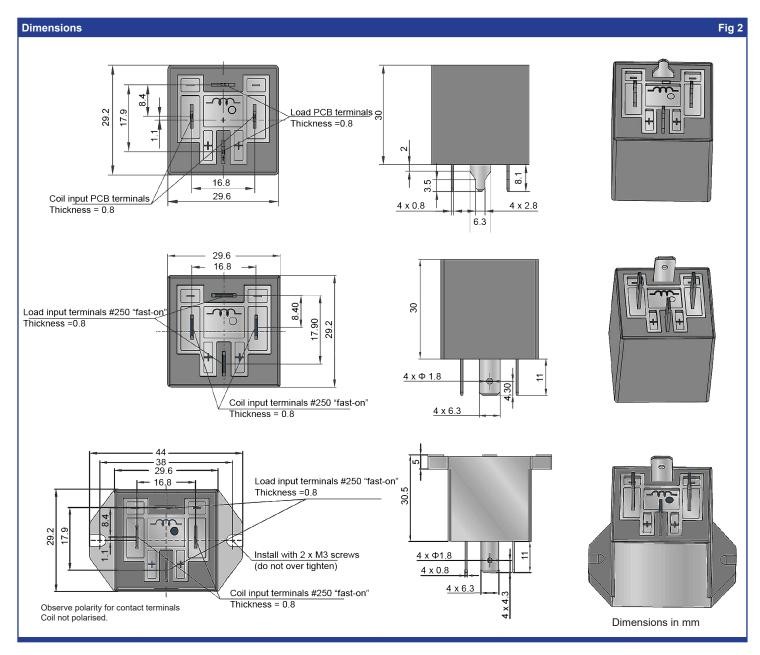
CAC C TABUS Compliant					
Contacts			Ordering Code		
Contact arrangement		SPST-NO-DM (1 Form X)			
Contact material		AgCu10 (Silver alloy)	D C 2 0 - 4 0 2 1 - 3 5 - 1 0 1 2		
Rated current	DC1	20A / 450VDC (25A PCB Version)			
Max. switching voltage		450VDC	Series Coil code:		
Max. breaking current		35A (450VDC>1cycle)	See table 1		
Max. switching power		9kW	Contact material		
Current carrying capacity		See Fig 1, 20A continuously. Up to 200A 0.6s	40: AgCu10		
Initial contact resistance		≤ 10mΩ at 20A			
Max. operating frequency	rated load	360 cycles/hour	Contact arrangement		
Coil			21: SPST-NO-DM (1 Form X)		
Operating range	DC	12 ~ 80V See Table 1			
Rated power consumption		Approx. 3W	Mounting & terminations		
nsulation			35: PCB Mounting		
Coil insulaton system		IEC 31, CLASS F 155°C	46: Chassis Mounting		
Insulation resistance		>100 MΩ at 500VDC, 50%RH	76: Plug in		
Dielectric strength	coil to contact	3000V _{rms} (50/60Hz, 1min, <1mA leakage)			
	open contacts	2000V _{rms} (50/60Hz, 1min, <1mA leakage)			
General Data					
Operate time (including bounce)	max.	30ms	Fig 1.		
Contact bounce time	max.	5ms	Endurance Capability Curve		
Release time	max.	10ms			
Electrical life at full rated load	cycles	1 x 10 ⁴ 20A 450VDC	10000 20A Cont		
		5 x 10 ⁴ 10A 450VDC	30A 60min		
		1 x 10 ⁵ 20A 72VDC	9 1000 40A 20min		
Mechanical life	cycles	>3 x 10 ⁵	4		
Environmental			100		
Environmental protection		IP67	80A 30s		
Ambient temperature	operating	-40 to +85°C	10		
	storage	-40 to +125°C	200A 0.6s		
Mechanical shock		20g, 11ms Functional, 50g Destructive	10 20 100 1000		
Vibration resistance		5g (10 ~ 500Hz)	current(A)		
Relative humidity		20% ~ 90%			
Dimensions	LxWxH	29.6 x 29.2 x 30mm approx.(excluding flanges)			
Weight	approx.	55g (flange mounting type), 52g (PCB type)			

DC20 042122FW

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



DC Coil Data Table 1							
Coil code	Nominal voltage (VDC)	Must operate voltage max. (VDC@ 20°C)	Must release voltage min. (VDC)	Coil resistance Ω ±10% (at 20°C)	Coil current (mA)		
1012	12	9.00	1.0	46.5	258		
1024	24	18.0	2.0	186	129		
1048	48	36.0	4.0	743	65		
1060	60	45.0	5.0	1230	49		
1080	80	60.0	6.5	2130	38		



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