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PERFORMANCE DATA

PARAMETERS	UNITS	VALUE FOR EV200 SERIES
Contact Arrangement: Power Contacts		1 Form X (SPST-NO-DM)
Rated Operating Voltage	Vdc	100 - 900
(NOTE: Voltages between 450 to 900 Vdc are capable but load dependent and require TE Engineering approval)		
Continuous (Carry) Current, Typical	A	500 @ 65°C, 400 mcm conductors
Consult factory for required conductors for higher (500+ A) currents		
Break Current at 320 Vdc	A	2,000, 1 cycle
Contact Resistance, Typical (@ 200A)	mohms	0.2
Load Life	Cycles	See Chart
Mechanical Life	Cycles	1,000,000
Operate Time @ 25°C		
Close (includes bounce), Typical	ms	15
Bounce (after close only), Max	ms	7
Release (includes arcing), Max @ 2000A	ms	12
Dielectric Withstand Voltage	Vrms	2,200 @ sea level (leakage < 1 mA)
Insulation Resistance @ 500 Vdc	megohms	100 (50 at end of life)
Shock, 11ms 1/2 sine, peak, operating	G	20
Vibration, sine, 80 - 200 Hz, peak	G	20
Operating Ambient Temperature	°C	-40° to +85°
Weight (Nominal)	lb [kg]	.95 [0.43]

COIL DATA

Voltage (will operate)	9 - 36 Vdc
Voltage (Max)	36 Vdc
Pickup (close) Voltage (Max)	9 Vdc
Hold Voltage (Min)	7.5 Vdc
Dropout (open) Voltage (Min)	6 Vdc
Inrush Current (Max)	3.8A
Holding Current (Avg)	0.13A @ 12V
Inrush Time (Max)	130 ms

Coil Wire is 22AWG with 15.3 IN [390mm] Length

STAINLESS

LABEL

2.85 ± .025 [72.3 ± 0.63]

.55 ± .025 [14.04 ± 0.63]

2.44 ± .02 [62.0 ± 0.51]

M8 x 1.25 POWER TERMINALS (Hardware Supplied):  
 2 x M8 Washer, Stainless  
 2 x M8 Lockwasher - Split Ring, Stainless  
 2 x M8 x 1.25 Nut, Stainless  
 Torque 80 to 100 in-lb [8.8 to 11 Nm]

1.05 [26.67 ± 0.26]

A1 "+" POSITIVE TERMINAL

A2 "-" NEGATIVE TERMINAL

1.65 ± .01 [42.0 ± 0.26]

2.688 ± .01 [68.28 ± 0.26]

Mounting Hardware (Not Supplied):  
 2 x M5 Bolt  
 2 x M5 Lockwasher  
 2 x M5 Narrow Washer  
 Torque 15 to 30 in-lb [1.7 to 3.3 Nm]

RED = "+" COIL

BLACK = "-" COIL

2.20 ± .025 [55.81 ± 0.63]

∅ 2.05 ± .02 [52.0 ± 0.51]

.50 ± .01 [12.6 ± 0.26]

3.17 ± .01 [80.48 ± 0.26]

- TO AVOID OVERHEATING, THE COIL ABOVE SHOULD NOT BE LEFT ON AT FULL POWER (12V) FOR A LONG PERIOD OF TIME.
- THE MINIMUM HOLD CURRENT OF 650mA (MENTIONED ABOVE) ONLY PRODUCES A T-RISE OF 20°C (MAX).
- FOR ANY OTHER INFORMATION, PLEASE REFER TO THE EV200 GENERAL CUSTOMER DATASHEET.

2098190-1  
PART NUMBER

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN	25MAY2010	STE		TE Connectivity	
DIMENSIONS: INCHES		CHK	A LEE 25MAY2010	NAME		RELAY, EVC500 SPST-NO 12V	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD	A LEE 25MAY2010	PRODUCT SPEC		-	
0 PLC ±		APPLICATION SPEC		-		-	
1 PLC ±.01		WEIGHT		-		-	
2 PLC ±.005		CUSTOMER DRAWING		SCALE		1:1	
3 PLC ±		MATERIAL		-		-	
4 PLC ±		FINISH		-		-	
ANGLES ±°		SIZE		A200779		DRAWING NO	
FINISH		CAGE CODE		C-2098190-1		RESTRICTED TO	
-		SHEET		OF		REV	
-		D		D		D	

1471-9 (3/13)