

P	LTR	DESCRIPTION	DATE	DWN	APVD
	A	INITIAL DRAWN	13SEP2019	RV	JR

Physical Data

Contact Arrangements —
 Main Contacts — SPST, Latching
 Auxiliary Contacts 1 — Up to 2 Form A
Dimensions — See drawing
Weight, Nominal — .95 lb. (.43 kg)

Environmental Data

Shock, 11ms 1/2 Sine (Operating) — 30 G_{peak}
Sine Vibration, 20 G_{peak} — 55-2000 Hz
Random Vibration, 14.06 Grms — 15 Hz (.002 G²/Hz), 100 Hz (.002 G²/Hz), 450 Hz (.12 G²/Hz), 900 Hz (.12 G²/Hz), 2000 Hz (.083 G²/Hz)
Operating Temperature Range — -40°C to +85°C

Electrical Data

Voltage Rating —
 Main Contacts (Max) — 750 Vdc
Current Rating, Continuous —
 Main Contacts 2 — 500A
Contact Resistance —
 Main Contacts 3 —
 0.2 mΩ max above 300A
 0.3 mΩ max between 50 and 300A
Hot Switching Performance (Positive Polarity) 4 —
 200A make/ break @ 270Vdc — 10,000 cycles
 600A make/ break @ 360Vdc — 100 cycles
 800A break only @ 360Vdc — 15 cycles
 2000A break only @ 360Vdc — 1 cycle
Mechanical Life (Min) —
 1 million cycles



Hold (Min) — N/A
Reset (Max)/Dropout (Min) — 9 Vdc
Duty Cycle, Max 7 — 20%
Coil Resistance @ 25°C — 2.5 Ω
Operate Specs @ 25°C —
 Operate Time (Typ) — 15 ms
 Operate Bounce (Max) — 7 ms
 Release Time (Max) — 15 ms

Notes:

- Product can be configured alternately with form B or C auxiliary switches if required. This changes the product part number, depending on specific auxiliary configuration. Consult TE for availability and part number
- Ambient conditions and conductor design affect rating. Terminal temperature rise should be 75°C max above ambient. Keep relay terminals below 150°C max continuous, 175°C max for two hours, and 200°C for 1 minute.
- Stabilized reading. Contact resistance may exceed spec in the first 10 minutes of current carry.
- Units are polarity sensitive. Approximately 50% de-rating for reverse polarity switching. Consult factory for review of specific requirements.
- Over temperature range unless noted. Suggested coil pulse = 50-100 ms.
- 24V and 48V coils available on request — consult factory.
- Intermittent Duty Coil. Coil overheating can occur if duty cycle is exceeded. Limit average coil power to 10W maximum.

Dielectric Withstand Voltage —
 Terminal to Terminal/ Terminals to Coil — 1mA max @ 2,200 Vrms
Insulation Resistance —
 Terminal to Terminal/ Terminals to Coil — 100MΩ min @ 500Vdc new
 50MΩ min @ 500Vdc end of life

Coil Data 5
Nominal Coil Voltage 6 — 12 Vdc
Pick Up/Latch (Max) @ 25°C — 9 Vdc

Ordering Information

Typical Part Number ▶ **EV200 P 4 A N A**

Series: EV200 = 500+ Amp, 12-900VDC Contactor

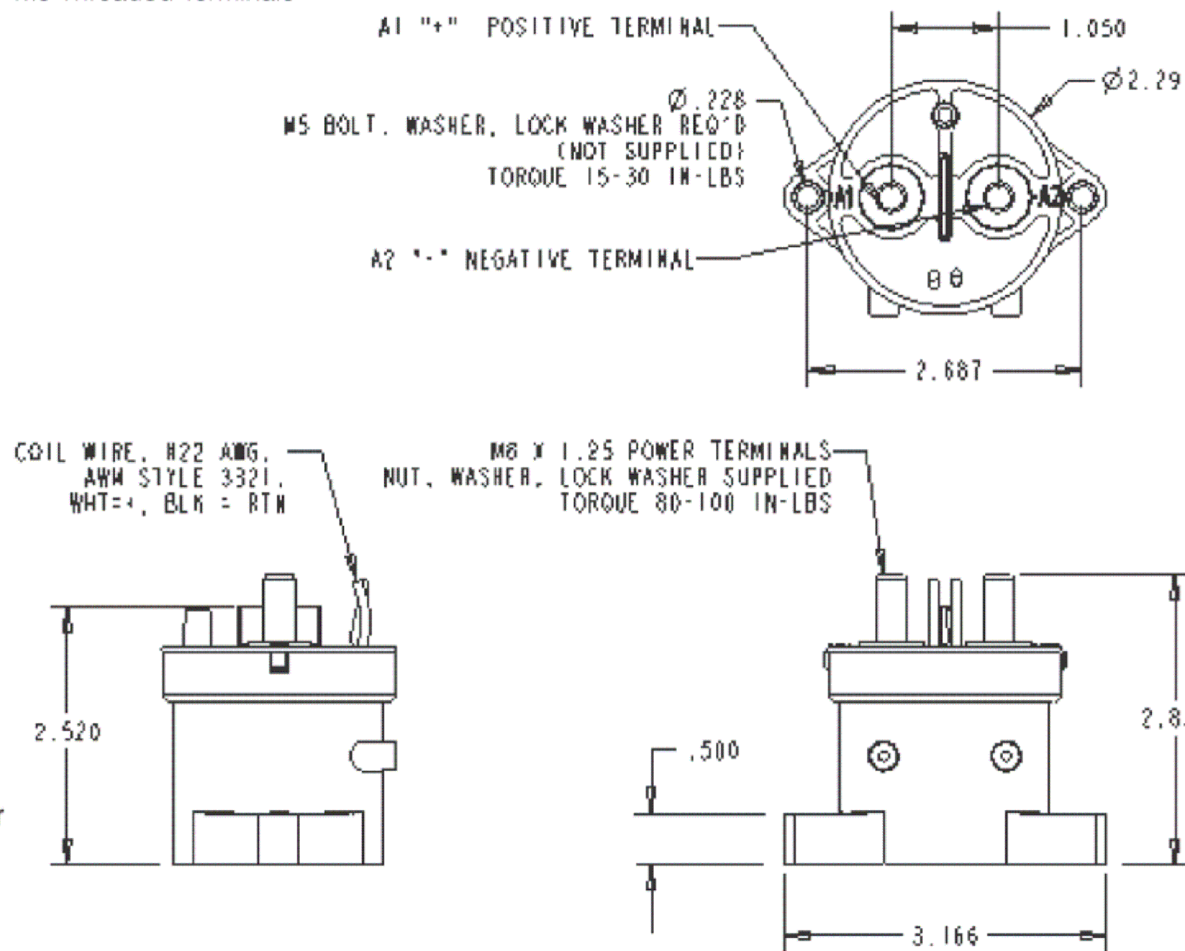
Contact Form:
 P = Latching
 F = Latching with 1 SPDT Aux.

Coil Voltage:
 4 = 12 Vdc
 5 = 24 Vdc
 6 = 48 Vdc

Coil Terminations:
 A = 15.3 in. (300 mm)

Coil Termination Connector:
 N = None

Mounting & Power Terminals:
 A = Bottom Mount & Male 10mm x M8 Threaded Terminals



Product Facts

- Latching version of popular EV200 Series
- Designed to be the smallest, lowest cost, lightest weight sealed contactor in the industry at its current rating
- Optional auxiliary contacts for monitoring position of power contacts
- Hermetically sealed — operates in explosive/harsh environments with no oxidation or contamination of coil or contacts during long periods of non-operation
- Not position sensitive, can be mounted in any orientation
- RoHS versions available

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN RV 13SEP2019	TE Connectivity		
DIMENSIONS: INCHES		CHK RV 13SEP2019			
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD JR 13SEP2019	NAME EV200 SERIES		
0 PLC ± -		PRODUCT SPEC	-		
1 PLC ± -		APPLICATION SPEC	-		
2 PLC ± -		WEIGHT	-		
3 PLC ± -		SIZE A3	CAGE CODE	DRAWING NO	RESTRICTED TO
4 PLC ± -		G=EV200-SERIES		-	
ANGLES ± -		CUSTOMER DRAWING			
FINISH		SCALE NTS		SHEET 1 OF 1	REV A