© – TE Connectivity. All Rights Reserved.

REVISIONS					
P	LTR	DESCRIPTION	DATE	DWN	APVD
	B	ECN–24–278931	12AUG2024	YK	JS

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 G^2/Hz), 100 Hz (.002 G^2/Hz), 450 Hz (.12 G^2/Hz), 900 Hz (.12 G^2/Hz), 2000 Hz (.083 G^2/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:

1 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

2 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.

3 Stabilized reading. Contact resistance may exceed spec in the first 10 minutes of current carry.

4 Units are polarity sensitive. Approximately 50% de-rating for reverse polarity switching. Consult factory for review of specific requirements.

5 Over temperature range unless noted. Suggested coil pulse = 50-100 ms.

6 24V and 48V coils available on request — consult factory.

7 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

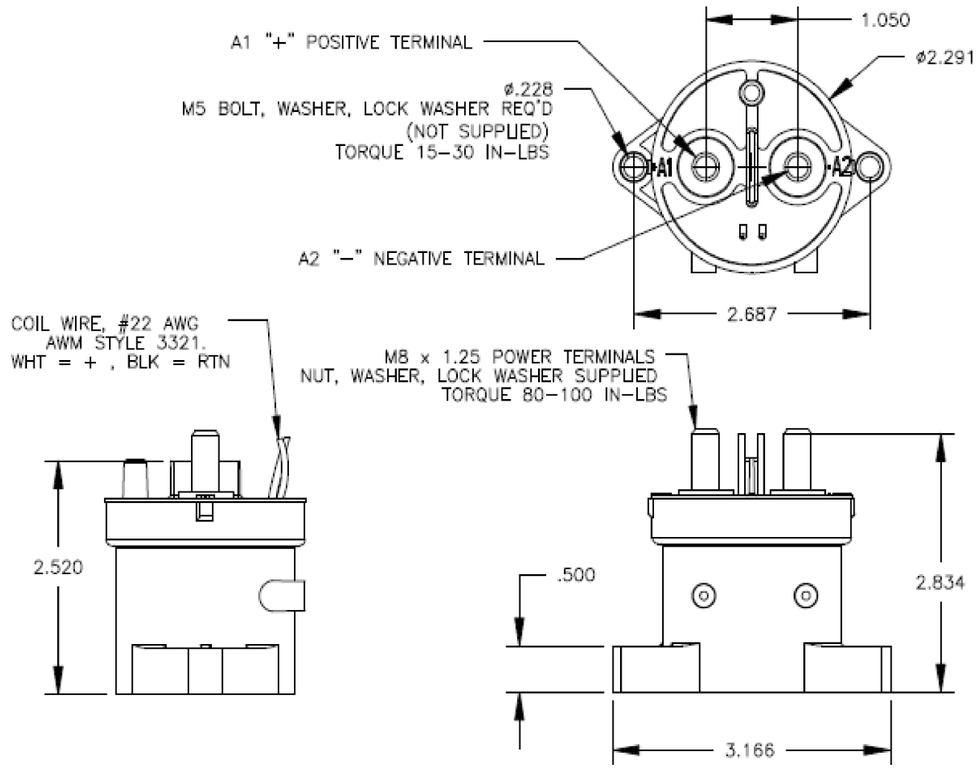
Coil Terminations:
A = 15.3 in. (300 mm)

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	TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ± – 1 PLC ± – 2 PLC ± – 3 PLC ± – 4 PLC ± – ANGLES ± –	CHK RV 13SEP2019	NAME EV200 LATCHING SERIES
MATERIAL	FINISH	APVD JR 13SEP2019	
		PRODUCT SPEC –	SIZE A3 / CAGE CODE – / DRAWING NO C–EV200 LATCHING SERIES / RESTRICTED TO –
		APPLICATION SPEC –	
		WEIGHT –	CUSTOMER DRAWING / SCALE NTS / SHEET 1 OF 1 / REV B

Downloaded from Arrow.com.