TE Connectivity Ltd.

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Performance Data

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Contact Arrangement, Power Contacts — 1 Form X (SPST-NO-DM)

Rated Operating Voltage — 12 - 900 VDC

Continuous (Carry) Current, **Typical** — 500 A @ 65°C, 400 mcm conductors

Consult TE for required conductors for higher (500+ A) currents

Make/Break Current at Various **Voltages 1** — See graph next page

Break Current at 320VDC 1 ---2,000 A, 1 cycle 3

Contact Resistance, Typ. (@200A) — 0.2 mohms

Load Life — See graph next page **Mechanical Life** — 1 million cycles

Contact Arrangement, Auxiliary Contacts — 1 Form A (SPST-NO)

Aux. Contact Current. Max. — 2A @ 30VDC / 3A @ 125VAC

Aux. Contact Current, Min. — 100mA @ 8V

Aux. Contact Resistance, Max. — 0.417 ohms @ 30VDC / .150 ohms @ 125VAC

Operate Time @ 25°C —

Close (includes bounce), Typ. — 25 ms $\,\blacksquare\,$ Designed and built in Bounce (after close only), Max. — 7 ms Release (includes arcing), Max @ 2000A — 12 ms

Dielectric Withstanding Voltage 2,200 Vrms @ sea level (leakage <1mA) Insulation Resistance @ 500VDC -

Shock, 11ms 1/2 Sine, Peak, Operating — 20 G

100 megohms 2

Vibration, Sine, 80-2000Hz., **Peak** — 20 G

Operating Ambient Temperature -40°C to +85°C

Weight, Typical — 1.3 lb. (.60 kg)

Notes:

- ¹ Main power contacts
- 2 50 at end of life ³ Does not meet dielectric & IR after
- test, 1700 amp for unit with Aux. Contacts
- ⁴ Contacts will operate with 0.8V_{nom} < V_{coil} < 1.1V_{nom} over temperature range.

Product Facts

Designed to be the lowest cost sealed contactor in the LEV200 = 500+ Amp, 12-900Vdc Contactor industry with its current rating (500+A carry, 2000A interrupt at 320Vdc)

- Available with bottom or side mounting - not position sensitive
- Optional auxiliary contact for easy monitoring of power contact position
- Hermetically sealed intrinsically safe, operates in explosive/harsh environments with no oxidation or contamination of coils or contacts. including long periods of non-operation
- Typical applications include Coil Terminal Connector: battery switching and backup. DC voltage power control, circuit protection and safety
- Versatile coil/power connections
- accordance to AIAG QS9000
- RoHS compliant

Typical Part Number

Series: Contact Form: . A = Normally Open

H = Normally Open with Aux. Contacts. (Option "H" requires option "A" in Coil Wire Length and option "N" in Coil Terminal Connector.) Note: Other auxiliary contact forms available. Consult factory.

Coil Voltage:

4 = 12Vdc 5 = 24Vdc B = 28Vdc

6 = 48 Vdc K = 72 Vdc

8 = 96 Vdc L = 110 Vdc O = 115 Vac 9 = 240 Vac Notes: Consult factory for detailed specifications and availability of coils not listed in "Coil Data" table above. In coil voltage codes, 115Vac is designated by the

letter "O" rather than the numeral "O."

Coil Wire Length:

A = 15.3 in (390 mm)

N = None (Requires option "A" in next step.)

LEV200 A 4 N A A

N = None, stripped wires

(Requires option "A" in previous step.)

A = Studs, #10-32 Threaded (Electrical connection is made to the tab at the base of the stud.) Note: Specify option A. stripped wires, for coil voltages > 96Vdc

Mounting & Power Terminals:

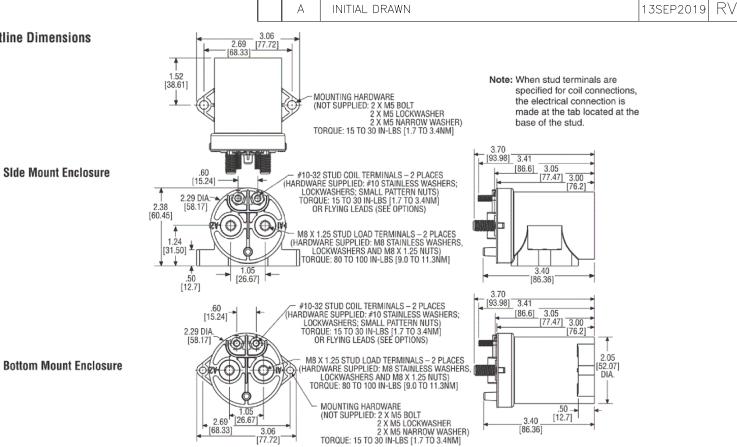
A = Bottom Mount & Male 10mm x M8 Threaded Terminals Estimated Make & Break Power Switching Ratings F = Side Mount & Male 10mm x M8 Threaded Terminals

Consult factory regarding other available mountings and power terminals.

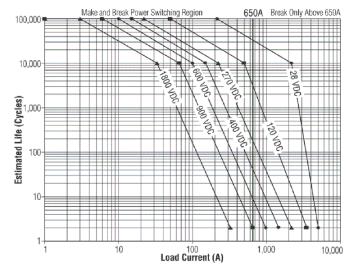


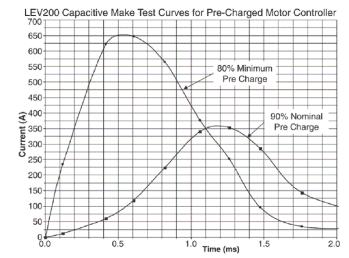
Coil Data (Valid Over Temperature Range) 4										
Nominal Voltage	12Vdc	24Vdc	48Vdc	72Vdc						
Pickup Voltage (Will Operate)	9.0Vdc	19.0Vdc	38.0Vdc	57.0Vdc						
Voltage (Max.)	15Vdc	30Vdc	60Vdc	90Vdc						
Dropout Voltage	0.75 - 2.0Vdc	1.0 - 5.0Vdc	2.0 - 7.0Vdc	3.0 - 12.0Vdc						
Coil Resistance @ 25° (Typ.)	11 ohms	40 ohms	145 ohms	357 ohms						

Outline Dimensions



INITIAL DRAWN





REVISIONS

DESCRIPTION

APVD

JR

В

DWN

- 1) For resistive loads with 300uH maximum inductance. Consult factory for inductive loads
- 2) Estimates based on extrapolated data. User is encouraged to confirm performance in application 3) End of life when dielectric strength between terminals falls below 50 megohms @ 500VDC.
- 4) The maximum make current is 650A to avoid contact welding.

-	THIS DRAWING IS A CO	DWN RV	13SEP2019		_	? TE	TE Ca		.*±		
			CHK RV	13SEP2019			STE	TE Co	nnecuv	/ity	
	DIMENSIONS:	TOLERANCES UNLESS	APVD	13SEP2019	NAME						
	INCHES	OTHERWISE SPECIFIED:	JR	133272019	INAME	LEV200 SERIES					
		O PLC ± -	PRODUCT SPEC					_ V Z O O O L I (I			
		1 PLC ± -	_					_			
		2 PLC $\pm -$ 3 PLC $\pm -$	APPLICATION SPEC								
	'	4 PLC \pm – ANGLES \pm –	_		SIZE	CAGE CODE	DRAWING NO				RESTRICTED TO
	MATERIAL	FINISH	WEIGHT —		A3	_	G-LE\	/200-SE	RIES		_
	_	_	CUSTOMER DR	AWING				scale NTS	SHEET	1 OF 1	REV A

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