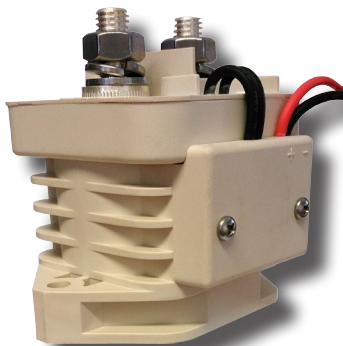


DEVR20

Electric Vehicle Contactor

DURAKOOL



- High current and high voltage capability
- Compact structure - Low noise
- Magnetic arc blowout
- Rated up to 500A
- Reliable contacts, in inert gas
- Coil Economizer as standard
- RoHS Compliant

Power Contacts

Contact number & arrangement	SPST-NO-DM (1 Form X)
Contact material	AgSnO ₂
Max. switching voltage	900VDC
Rated continuous current	200A (≥ 65mm ² , AWG 00),
Max. continuous current	500A (≥150mm ²)* ¹ (voltage dependant)
Max. breaking capacity	2000A at 320VDC (1 cycle)
Initial resistance	0.03mΩ (≤60mV@200A)
Optional Auxillary Contacts	
Contact number & arrangement	SPST-NO (1 Form A)
Max. contact current	2A @ 30VDC / 3A @ 125VAC
Min. contact current	100mA @ 8V

Coil

Rated voltage	9...95VDC (with Coil Economizer)
Operating range of supply voltage	See coil data 'Table 1'
Insulation	
Insulation resistance	100MΩ at 500VDC
Dielectric strength	coil - contact 2,200Vrms / 4500VDC
	contact - contact 5,000Vrms / 10000VDC

General Data

Operating time	mS	≤ 25ms Max. (includes bounce time)
Release time	mS	≤ 12ms Max.
Electrical Life	ops	See Table 2 (Voltage and current dependent)
Mechanical life	ops	1 x 10 ⁶
Dimensions	L x W x H	80.44 x 65.6 x 72.3mm (see drawings for detail)
Weight		0.43kg
Ambient Temperature	operating / storage	-40 to +85°C
Shock resistance		20G, 11ms ½ sine, peak
Vibration resistance		20G, sine, peak (80~2,000 Hz)

* Consult factory for higher current capabilities

¹ Recommended wire ≥ 200 mm² for 500A rating at max 65°C

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Electric Vehicle Contactor



Coil Data - DEV20

Table 1

Coil Voltage Code	Nominal Voltage (VDC)	Must Operate Voltage Max. (VDC)	Maximum Allowable Voltage (VDC)	Must Release Voltage Min. (VDC)	Inrush Current Max. (A)	Hold Voltage Min. (VDC)	Holding Current (Average)
0936	9 - 36	9	36	6	3.8	7.5	130mA @ 12VDC 70mA @ 24VDC
3295	32 - 95	32	95	18	1.3	22	30mA @ 48VDC
4895	48 - 95	48	95	27	0.7	34	20mA @ 72VDC

Ordering Codes

D E V R 2 0 - 5 0 6 1 - S 8 - - - - -

Contact Material

50 - AgSnO₂

Contact Arrangement

- 61 - SPST-NO, Polarity conscious¹
- 71 - SPST-NO, with aux contacts. Polarity conscious¹
- 81 - SPST-NO, Polarity not required
- 91 - SPST-NO, with aux contacts. Polarity not required.

Cover Protection and Mounting

S - Flange mount on base

Connection Mode

8 - M8 x 10 Stud Terminal

Coil Code

See Coil Table 1

Coil Wire Length

- R - 14.96" (380mm)
- T - 5.9" (150mm)

Other lengths available

Coil Wire Termination

- 1 - None
- 2 - Yazaki 7282-5558-10 Male
- 3 - Molex Mini-Fit Female

Other terminations to special order

¹: Failure to observe correct polarity for load connections will result in degraded performance and life.

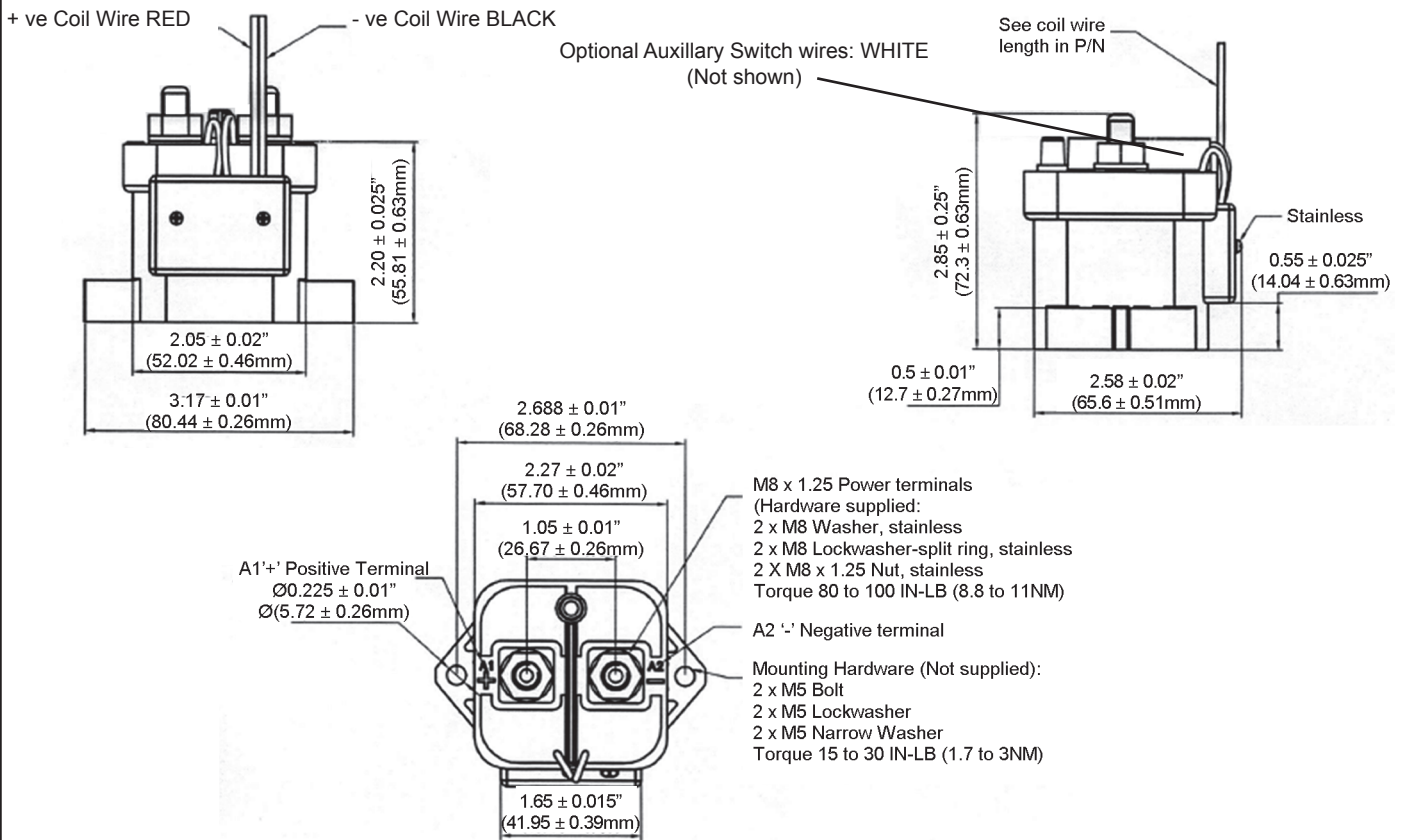
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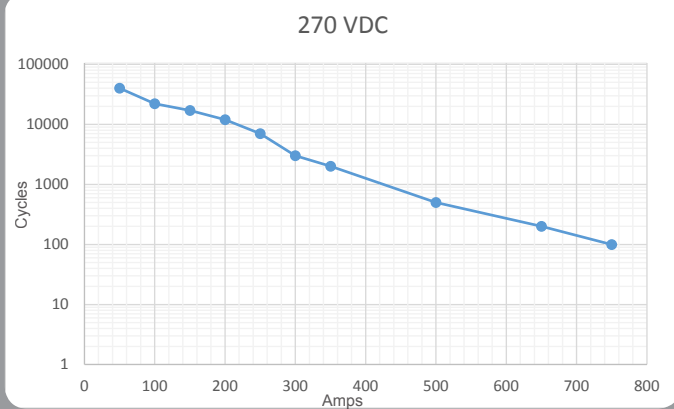
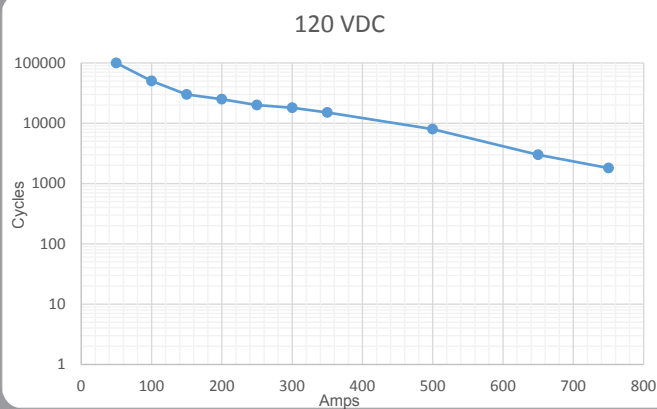
Overall Dimensions

Fig. 1



Electrical Life (Make & Break) Switching (resistive load)

Fig. 2



continued on Page 4

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Electric Vehicle Contactor

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Electrical Life (Make & Break) Switching (resistive load)

Fig. 2 (continued)

