



O/E/N 86

BATTERY DISCONNECT RELAY



FEATURES

- Limiting making current upto 2000A
- Vibration Resistance - 10 G
- Shock Resistance - 40 G
- IP54 Protection

APPLICATION

- Dual Battery applications
- Disconnection of Battery prevents accidental short circuit fires
- Battery Deactivation when vehicle is not used for an extended period
- Pre-heating systems

TECHNICAL DATA FOR CONTACT SIDE :

Areas of Application	Resistive / Inductive / Capacitive Loads
Contact Configuration	: 1 Form X
Contact Material	: Silver Alloy
Contact Rating at 23°C - 13.5 VDC	: 275A
27.5 VDC	: 275A
Electrical Life in No. of Operations Min.	: 15000 @ 275A, 13.5 VDC
	: 5000 @ 275A, 27.5 VDC
Mechanical Life in No. of Operations Min.	: 1×10^5 @ No Load
Contact Voltage Drop at 100 A (Max.)	: 150mV
Continuous Carrying Current	: 275A
@ 23°C Ambient temperature	

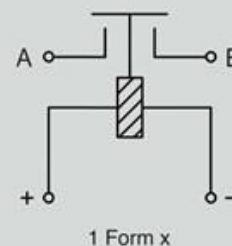
GENERAL DATA FOR COIL SIDE

Nominal Coil Power	: 4.2 W (Approx)
Operate Time	: 50 milli Seconds (Typ)
Release Time	: 50 milli Seconds (Typ)

OPERATING CONDITIONS

Ambient Temperature	: -40°C to +85°C
Dielectric Strength	
Between open contacts	: 500 VRMS
Between contact & coil	: 500 VRMS
Insulation Resistance	: 100 MegaOhms Min. at 500 VDC, 25°C RH 50
Vibration Resistance	: 10-500Hz, 10g
	(Change in switching state not more than 10μS)
Shock Resistance	: 40g, 11mS
	(Change in switching state not more than 10μS)
Weight	: 400 gms (approx).

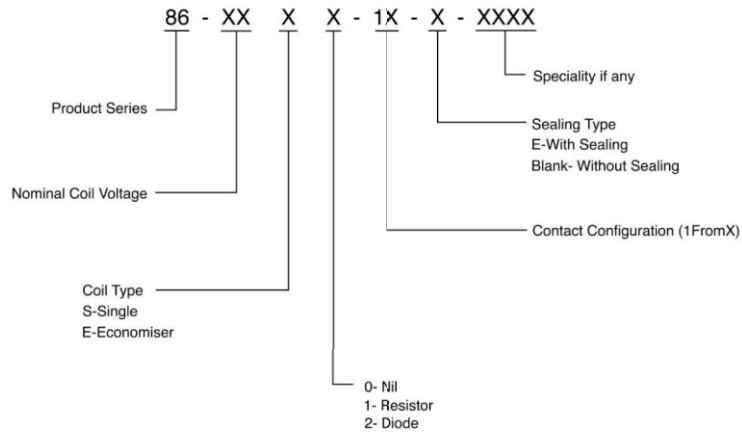
WIRING DIAGRAM



1 Form x

* Parallel resistor or diode optional

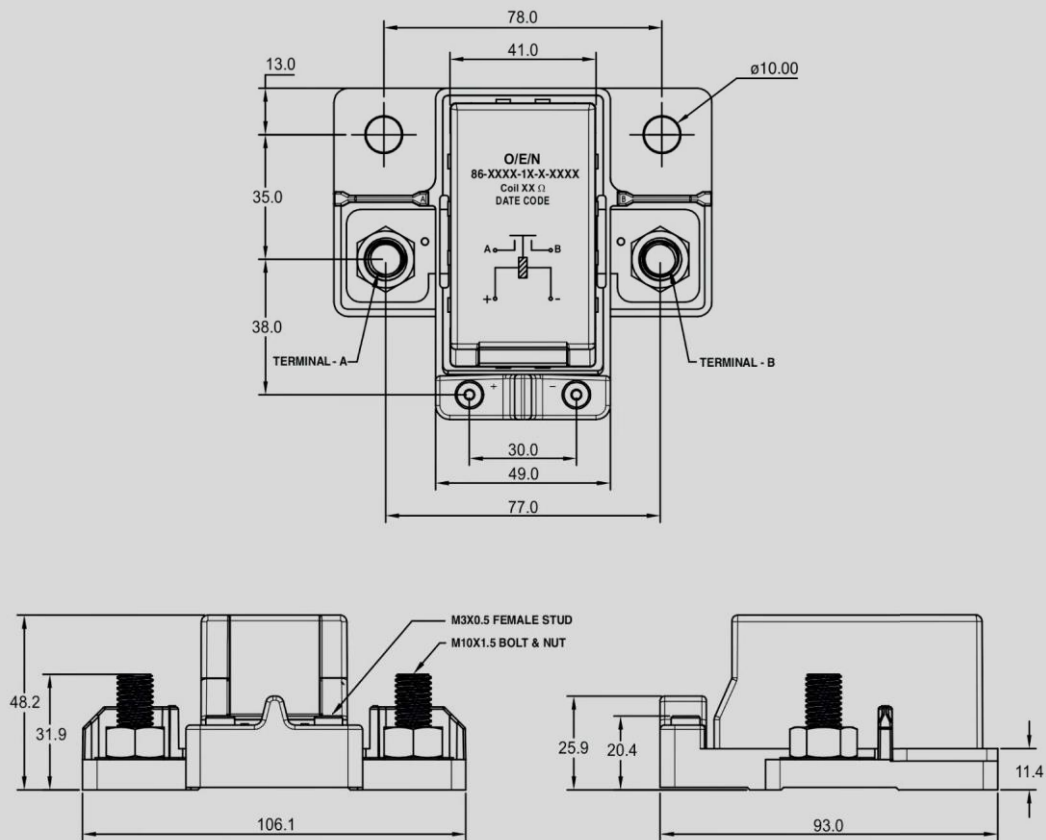
HOW TO ORDER



COIL DATA

Nominal Voltage VDC	Pick-up Voltage VDC (Max)	Drop-out Voltage VDC (Min)	Coil Resistance Ohms $\pm 10\%$
12	8	4.0	35
24	18	8.0	140

DIMENSIONS



AVAILABLE ON REQUEST

- For custom solutions consult factory