O/E/N 84EV

AUTOMOTIVE HVDC RELAY

New

FEATURES

- Max Switching Voltage 250VDC
- Screw type termination for contacts
- IP67 Protection
- Shrouded coil terminals

APPLICATION

- Battery Charger
- Capacitor Pre Charge
- Braking System
- Battery Disconnection
- Battery Management System

TECHNICAL DATA FOR CONTACT SIDE :

Areas of Application		**Resistive / Inductive / Capacitive Loads**
Contact Configuration	:	1 Form A
Contact Material	:	Silver Alloy
Contact Rating at 23°C - 72 VDC	:	150A
- 250VDC	:	25A
Electrical Life in No. of Operations Min.	:	15000 @ Rated Load- Resistor Version 5000 @ Rated Load- Diode Version
Mechanical Life in No. of Operations Min.	:	1×10^6 @ No Load
Voltage Drop Between Terminals	:	2.5 mV/A Max
Continuous Carrying Current@ 23°C	:	150A
Ambient temperature		

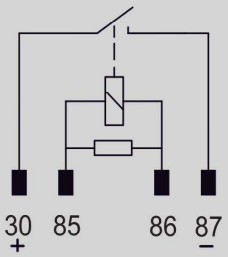
GENERAL DATA FOR COIL SIDE

Nominal Coil Power	:	3.6 W (Max)
Operate Time	:	20 milli Seconds (Typ)
Release Time	:	20 milli Seconds (Typ)

OPERATING CONDITIONS

Ambient Temperature	:	-40°C to +85°C
Dielectric Strength		
Between open contacts	:	1000 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	:	10g, 6 mS (Change in switching state not more than 10μS)
Weight	:	130 gms (Max).

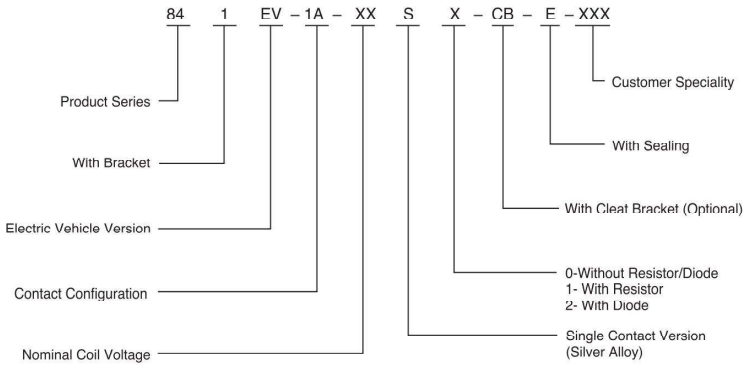
WIRING DIAGRAM



1 Form A

*Parallel resistor or diode optional

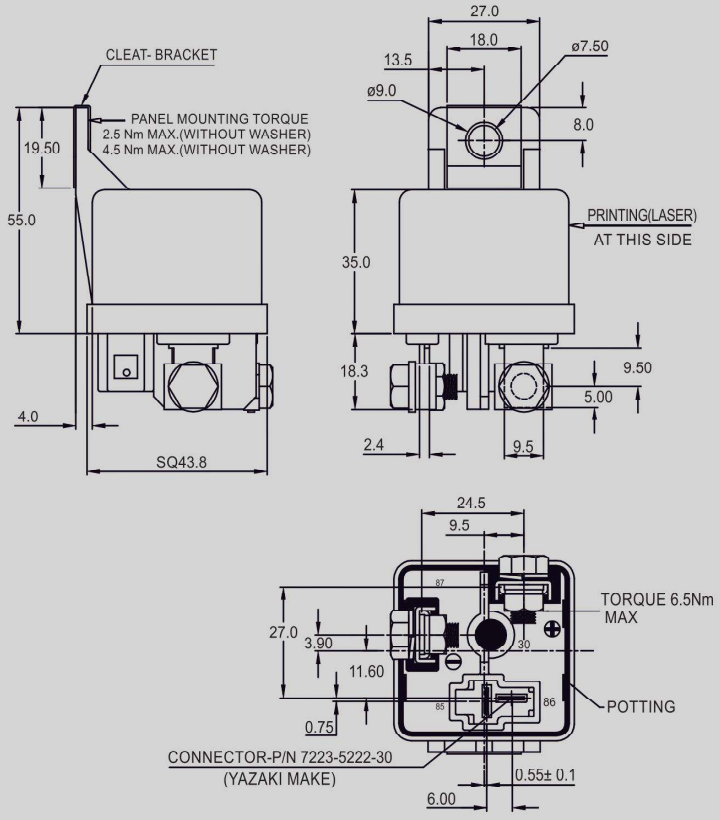
HOW TO ORDER



COIL DATA

Nominal Voltage VDC	Pick-up Voltage VDC (Max)	Drop-out Voltage VDC (Min)	Coil Resistance Ohms ± 10%
12	9.6	1.2	60
24	19.2	2.4	160

DIMENSIONS



AVAILABLE ON REQUEST

- For custom solutions consult factory