



O/E/N 53 PT

HEAVY DUTY RELAY

FEATURES

- High performance
- Heavy duty up to 120Amps
- 9.5mm Flat Contact Terminals
- Suitable Couplers available
- Dual Contacts

APPLICATION

- A/C Blower
- A/C Compressor
- Engine Cooling Fan
- Radiator Fan
- Starter Motors
- Rear Window Defogger
- Battery Disconnection

TECHNICAL DATA FOR CONTACT SIDE :

Model	:	53SO-PT	53TO-PT
		RESISTIVE / INDUCTIVE/CAPACITIVE LOADS	
Areas of Application			
Contact Configuration	:	1A	1A
Contact Material	:	Silver Nickel	Silver Nickel / Tungsten*
Contact Rating at 23°C - 12VDC (Res.)	:	70A	100A
Electrical Life Operations Min.	:	1 x 10 ⁵	1 x 10 ⁵
Mechanical Life Operations Min.	:	1 x 10 ⁶	1 x 10 ⁶
Contact Voltage drop at 10 A (Min)	:	30mV	30mV
Maximum Switching Current @ 12.8 VDC For 3 Sec.	:	150A	350A

*Dual contact with Tungsten pre-contact and Silver Nicker Main Contact

GENERAL DATA FOR COIL SIDE

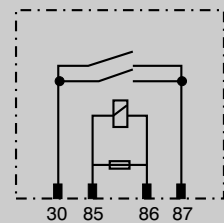
Nominal Coil Power	:	1.92W (Approx)
Operating Power	:	1.1W (Approx)
Operate Time**	:	15 milli Seconds
Release Time**	:	15 milli Seconds

** At nominal voltage without coil suppression (excluding bounce)

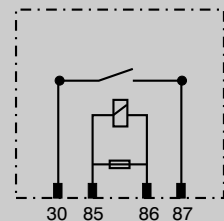
OPERATING CONDITIONS

Ambient Temperature	:	-25°C to +85°C
Maximum Temperature	:	155°C
Dielectric Strength	:	500VRMS
Insulation Resistance	:	100 Meg Ohms Min. At 500 VDC, 25°C RH 50
Vibration Resistance (without change In the switching state > 10μS)	:	10-50Hz 4.4g (min)
Shock Resistance (without change in the switching state > 10μS)	:	30g, 8mS

CIRCUIT DIAGRAM

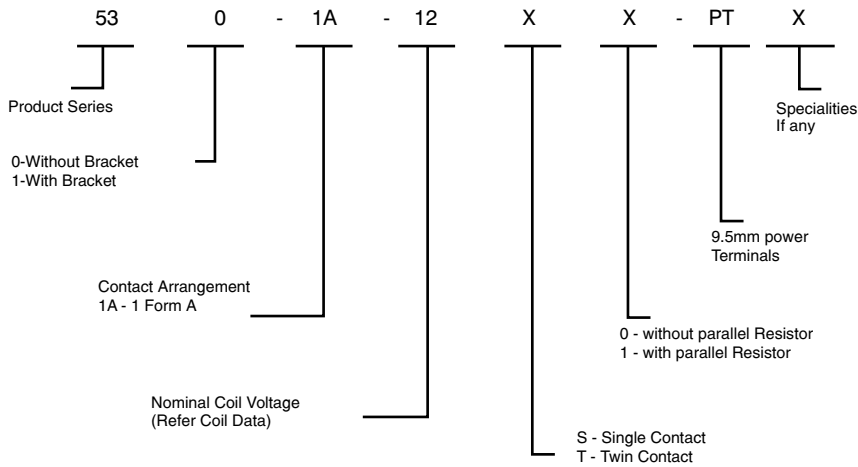


53TO-PT



53SO-PT

HOW TO ORDER



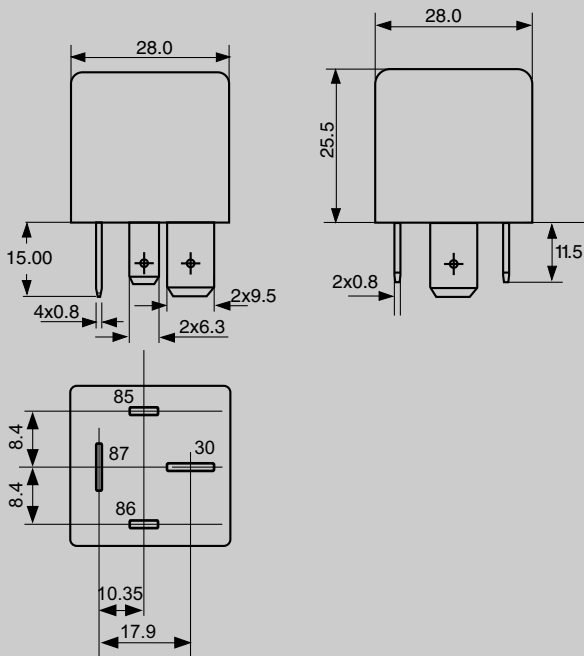
COIL DATA

Nominal Voltage VDC	**Pick-up Voltage VDC Version D	Pick-up Voltage VDC Version T	Coil Resistance without parallel resistor in Ohms $\pm 10\%$
06	4.8	5.2	20
09	6.8	7.2	55
12	9.0	9.6	75
18	13.5	14.4	165
24	18.0	19.2	250
48	36.0	38.4	1100

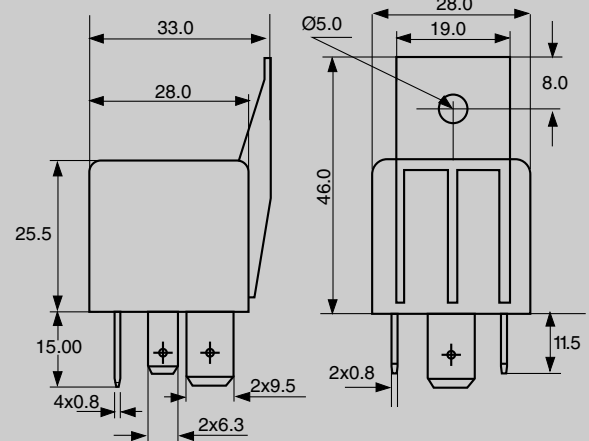
**Lower pick-up Voltages available on request

DIMENSIONS

Relay without Bracket



Relay with Bracket



MECHANICAL DATA

COVER RETENTION

Pull : 20KgF

Push : 20KgF

TERMINAL STRENGTH

Pull : 10KgF

Push : 10KgF

AVAILABLE ON REQUEST

- High Temperature winding wire
- Special coil resistance & pick-up
- Resistor / Diode across coil
- For other custom solutions consult factory