



# O/E/N 53 PT

## HEAVY DUTY RELAY

### FEATURES

- High performance
- Limiting continuous current upto 100A
- 9.5mm Flat contact terminals
- PCB version 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	: 53S-PT	53T-PT
<b>Areas of Application</b>	<b>Resistive / Inductive / Capacitive Load</b>	
Contact Configuration	: 1 Form A (1 NO)	1 Form A (1 NO)
Contact Material	: Silver Nickel	Silver Nickel / Tungsten*
Contact Rating at 23°C - 12 VDC (Res.)	: 70A	100A
24 VDC	: 35A	50A
Electrical Life in No. of Operations Min.	: $1 \times 10^5$	$1 \times 10^5$
Mechanical Life in No. of Operations Min.	: $1 \times 10^6$	$1 \times 10^6$
Contact Voltage drop (Max.)	: 50mV @ 10A	200mV @ 20A
Maximum Switching Current @ 12.8 VDC For 3 Sec.	: 150A	350A

\*Dual contact with Tungsten pre-contact and Silver Nickel Main Contact

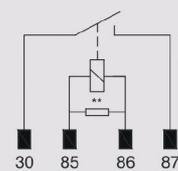
### GENERAL DATA FOR COIL SIDE

Nominal Coil Power	: 1.92W (Approx)
Operate Time	: 15 milli Seconds (Typ)
Release Time	: 15 milli Seconds (Typ)

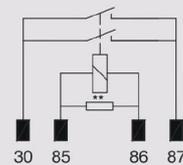
### OPERATING CONDITIONS

Ambient Temperature	: -30°C to +85°C
Maximum Temperature	: 155°C
Dielectric Strength	
Between open contacts	: 500 VRMS
Insulation Resistance	: 100 MegaOhms Min. at 500 VDC, 25°C RH 50
Vibration Resistance	: 10-50Hz, 4.4g (Change in switching state not more than 10μS)
Shock Resistance	: 30g, 8mS (Change in switching state not more than 10μS)
Weight	: 45 gms Max.

### WIRING DIAGRAM



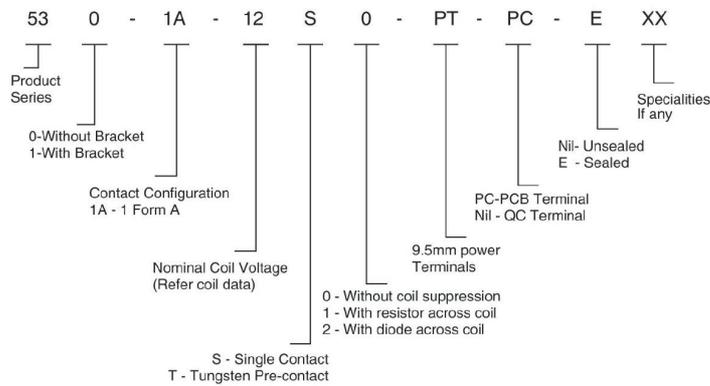
Single Contact



Dual Contact

\*\* Parallel resistor or Diode Optional

## HOW TO ORDER



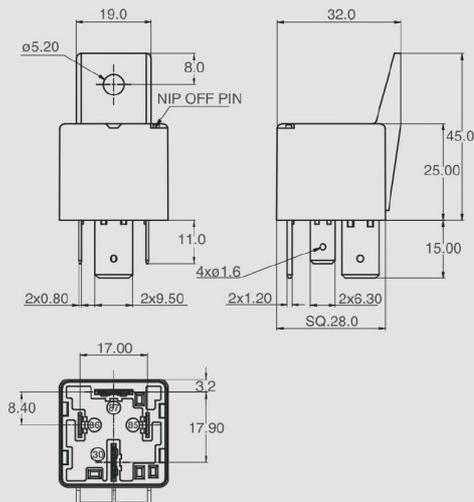
## COIL DATA

Nominal Voltage VDC	***Pick-up Voltage VDC (Max) Version S	Pick-up Voltage VDC (Max) Version T	Coil Resistance without parallel resistor in Ohms $\pm 10\%$
12	7.2	9.6	75
24	14.4	19.2	250
48	38.4	36.0	1100
110	88.0	82.5	5500

\*\*\*Lower pick-up voltages available on request

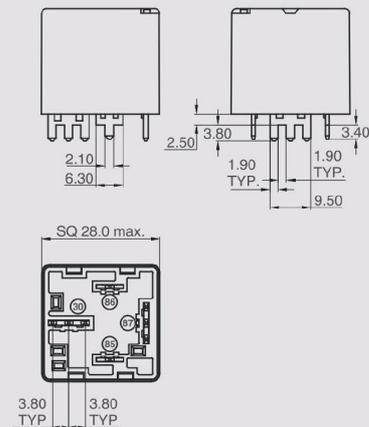
## DIMENSIONS

### RELAY WITH QUICK CONNECT TERMINALS



Note: Nip-off pin may be removed after soldering and cleaning for ventilation.

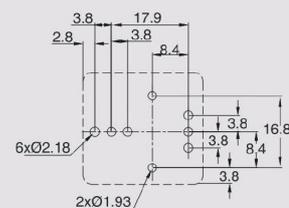
### RELAY WITH PCB TERMINAL



## MECHANICAL DATA

COVER RETENTION		TERMINAL STRENGTH	
Pull	: 20KgF	Pull	: 10KgF
Push	: 20KgF	Push	: 10KgF

## DRILLING PATTERN



## AVAILABLE ON REQUEST

- For custom solutions consult factory