RTO
THERMAL OVERLOAD RELAYS

L&T introduces RTO range of Thermal Overload Relays to complement the MO range of contactors. RTO thermal overload relays are available in 26 ranges and 3 frame sizes. The range is available from 0.23A to 110A . RTO range of Thermal Overload Relays proved protections against overload and single phasing and are modular in design.
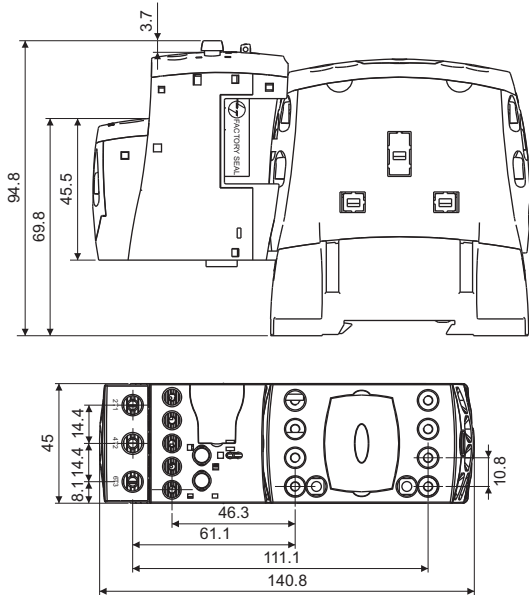
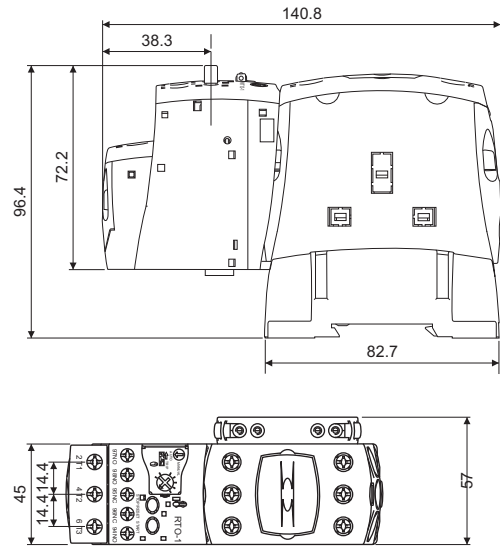|	
Features	• Visual status indication-tripped / non-tripped from front • Phase failure sensitive • Ambient temperature compensated • Auto manual / Reset function • Test function-simulates the tripping of the Relay from the front • Front access to START and STOP / RESET buttons • Three contacts: Alarm, Trip and Start • Isolated alarm circuit (N.O.) contact • Sealable in OFF condition • Sealable transparent top cover • Direct mounting on MO contactors
Accessories	• Separate mounting kit

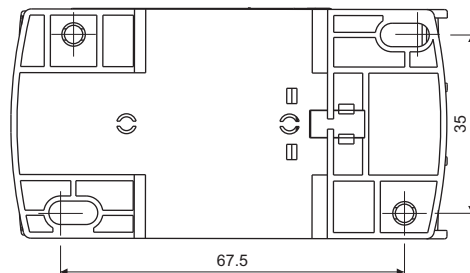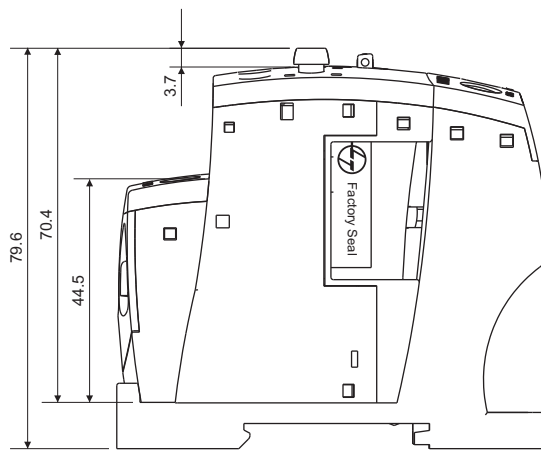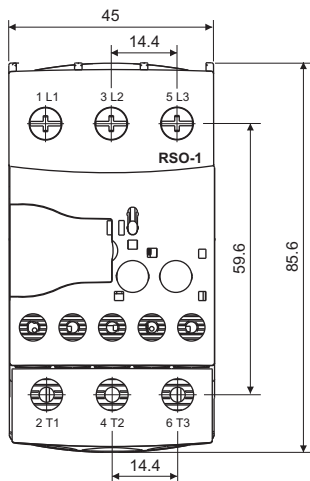| Type	RTO-1	RTO-2	RTO-3
Main Circuit			
Conformance to Standards	IS/IEC 60947-4-1		
Mounting	Direct / Separate		
Direct Mounting on Contactors	MO 9 - 45	MO 50 - 70	MO 80 - 110
Degree of Protection	IP20		
Rated Insulation Voltage U_i	1000 V		
Rated Impulse Withstand U_{imp}	8 kV		
Rated Operational Voltage	415 V, 50 Hz		
Type of Operation	Direct Acting, Trip Free Mechanism		
Trip Class	Class 10A, Fixed		
Temp Compensation	(-20 to +55) $^{\circ}$C		
Main Terminal Capacity (Wires)	Solid - 2 x 2.5 to 1 x 10 sq. mm. Finely Stranded - 2 x 2.5 to 6 sq. mm. Tightening Torque - 2.5 Nm. Type of Screw - M4, Class 6.8 for power conductors.	Solid - 2 x 6 - 35 sq. mm Finely stranded cable - 2 x 6 - 25 sq. mm. Tightening Torque - 4 Nm. Type of Screw - M6	Solid - 2 x 10 - 70 sq. mm. Finely stranded cable - 2 x 10 - 50 sq. mm. Tightening Torque - 5 Nm. Type of Screw - M8
Auxiliary Circuit			
No. of Contacts	1NO - Alarm		
	1NO - Start		
	1NC - Trip		
Rated Insulation Voltage	1000 V		
Rated Impulse Withstand	8 kV		
AC-15 Rating	2A @ 415 V, 50 Hz		
Thermal Current	6 Amp		
Terminal Capacity	2 x 2.5 sq. mm, Solid or finely stranded. Type of Screw - M3, Class 6.8 Tightening Torque - 1.5 Nm		

RTO-1 Relay On MO Frame 0 Contactor (9/12/18A)

RTO-1 Relay On MO Frame 1 Contactor (25/32/40/45A)

RTO-1 with Separate Mounting Kit RSO-1

All dimensions in mm.