

Description



Thermal overload relays TI 80 are used with contactors CI 32-50 to give protection of squirrel-cage motors of 7.5 kW to 25 kW.

The relays have single-phase protection, i.e. accelerated release if phase drop-out occurs. This is particularly important for motors with deltaconnected windings.

Other features of TI 80:

- stop/reset button
- manual/automatic reset
- test button
- double scale for direct start or Y/D start
- signal contact with changeover

Ordering

Thermal overload relays TI 80

			fuse 1)	Range			
. Type	Code no.	BS 88, type T		gl, gL, gG		Y/D-	Motor-
Туре	Code no.	type 2	type 1	type 2	type 1	starter	starter
		Α	Α	Α	Α	Α	Α
3	047H1013	63	125	63	125	28 - 40	16 - 23
	047H1014	63	125	63	125	38 - 56	22 - 32
TI 80	047H1015	100	125	100	125	52 - 78	30 - 45
б	047H1016	125		100		75 - 109	42 - 63

To IEC 947-4 coordination types 1 and 2:

Coordination type 1: Any type of damage to the motor starter is permissible. If the motor starter is in an enclosure, no external damage to the enclosure is permissible. After a short-circuit the thermal overload relay shall be partially or wholly replaced. Coordination type 2: No damage to the motor starter is permissible, but slight contact burning and welding is permissible.

Selection of thermal overload relay

The selection of a thermal overload relay must be based on the motor full load current and the method of starting:

- With direct start the range for motor starter is used.
- With star-delta start the range for Y/D starter is used.

Example:

Full load current: 45 A

- With direct start, the suitable motor starter range is 30-45 A, i.e. thermal overload relay 047H1015.
- With star-delta start, the suitable Y/D starter range is 38-56 A, i.e. thermal overload relay 047H1014.

Accessories for thermal overload relays TI 16C - 30C

AN ANTON	Description	Comments	Code no.
Clip-on marker	Clip-on markers	For thermal overload relays TI 16C, 25C and 30C (250-off)	037H010566
Assembly clips	Assembly clips	Vibration-proofing of motor starter with thermal overload relays TI 16C, 25C and 30C and contactors CI 6-30 (10-off).	037H010266
DIN holder	Holder for sep. mounting	Mounting of thermal overload relays TI 16C, 25C and 30C on 35 mm DIN rail	047H016566
ANG.	3-pole terminal block		613B1002
Base for TI 16C 3-pole terminal block	Base	Separate mounting of thermal overload relays TI 16C	047L040566
Base for TI 80	Base	Separate mounting of thermal overload relays TI 80 (20-off)	047L045666
Push button extension	Stop-pushbutton extens.	For thermal overload relays TI 16C-80 (3 mm)	047L040666
Current rail set	Current rail set	For direct mounting of thermal overload relay TI 80 on contactors	037H010866

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