

PTE - 4

DIRECT TRIPPING THERMAL RELAY



GENERAL COMMENTS

The PTE-4 thermal relay has been developed to equip isolating switches with free tripping.

The PTE-4 relays protect against constant weak overloads without the influence of variable load or short-term overloads.

Combined with high breaking power cartridge fuses, they achieve a sufficiently effective level of protection at minimum cost, when dealing with circuits in which the rated power is small, to create very high short circuit overcurrents. In these cases the price of the automatic high breaking power switch could be very high with respect to the rest of the installation.

ELECTRICAL DATA

Rated frequency 50 y 60 Hz
 (In) possible rated currents: 0,4 - 0,64 - 1 - 1,6 - 2 - 3
 - 4 - 5 - 7 - 10 - 12,5 - 15
 - 20 - 25 - 30 - 35 - 40 -
 50 - 60 - 80 - 100 - 125 A

Tripping time According curves
 Regulating Current $I_r = I_n \times 1,6$
 Tolerance over + 10%

Admissible Overcurrents:
 - In 0,02 segundos 220 I_n .
 - For 1 second 30 I_n .
 - Continuous 1,8 I_n .

Consumption with rated current 4 VA

Mass insulation voltage 1000 V
 Test voltage (for 1 minute) 3000 V

Path of tripping lever:
 - For disconnection 20 mm
 - For resetting 21 mm

Tripping force:
 - Output position 530 gr
 - At end of run 1250 gr
 Resetting force (maximum) 1500 gr

Relay weight 940 gr

TRIPPING CURVES

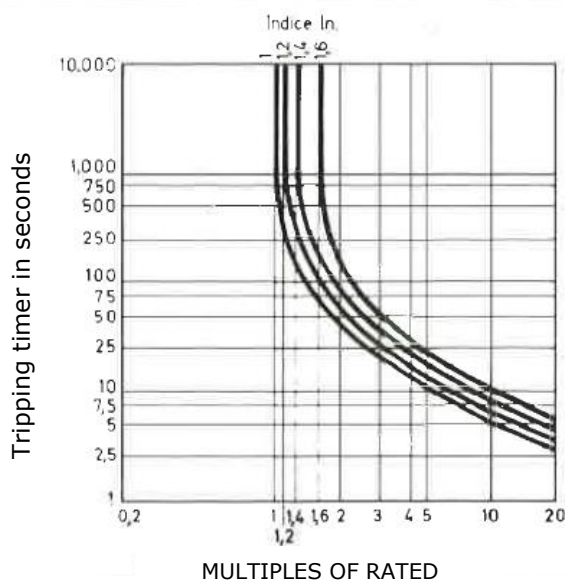


TABLE OF RECOMMENDED REGULATIONS OF PTE-4 THERMAL RELAYS AND FUSE CARTRIDGES IN FUNCTION OF THE TRANSFORMER POWER TO PROTECT

Transformer Burden kVA	Rated voltage / Operating voltage					
	7,2 / 6 kV	12 / 10 kV	17,5 / 15 kV	24 / 20 kV	28 / 25 kV	36 / 30 kV
	Rated current of the thermal relay (A) Caliber cartridge					
100	7	5	3	2	2	1,6
	30	20	12,5	10	8	6
125	10	7	4	3	2	2
	40	25	16	10	10	8
160	12,5	7	5	4	3	3
	50	30	20	12,5	10	10
200	15	10	5	5	4	3
	63	40	25	20	16	12,5
250	20	12,5	7	5	5	4
	80	50	30	25	20	16
315	25	15	10	7	7	5
	80	63	40	30	25	20
400	30	20	12,5	10	7	7
	125	80	50	40	30	25
500	40	25	15	12,5	10	7
	2x80	80	63	50	40	30
630	50	30	20	15	12,5	10
	2x90	100	80	63	50	40
800	60	40	25	20	15	12,5
	2x125	2x80	2x50	80	63	50
1000	80	50	30	25	20	15
	2x150	2x80	2x60	2x50	80	63

DIMENSIONS

