MOTOR SAFETY SWITCH SERIES MP

TECHNICAL DATA

Electrical:_

Rated Voltage U_e:	230/400 V, 240/415 V
Rated Frequenz:	50/60 Hz
Rated Current (adjustable) I_e:	0.10-0.16 / 0.16-0.25 / 0.25-0.40 / 0.40-0.63 A 0.63-1.0 / 1.0-1.6 / 1.6-2.5 / 2.5-4.0 / 4.0-6.3 A 6.3-10.0 / 10.0-16.0 /16.0-25.0 / 25.0-40.0 A
Impulse current proof U_{imp}:	4 kV (1.2/50 µsec)
Rated isolation voltage U_i:	440 V
Ambient temperature:	+20℃
Character of tripping:	overload trigger and magnetic fast trigger without delay
Conventional no-trigger-current I_{nt}:	1.05 I_e
Conventional trigger-current I_t:	1.30 I_e
Barrier of reaction of loss of phase:	1.42 I_e
Time-current-line:	see „Tripping characteristic“
Range of ambient temperature:	-40℃ up to +70℃ (Ef fect of the ambient temperature graphic)
Rated braking capacity I_{cn}:	10 kA (O - t - CO)
Application braking capacity I_{cs}:	7.5 kA (O - t - CO - t - CO)
Selectivity class:	3 (EN 60898)
Max. back up fuse:	graphic „Back up fuse and rated breaking capacity“

Mechanical data:

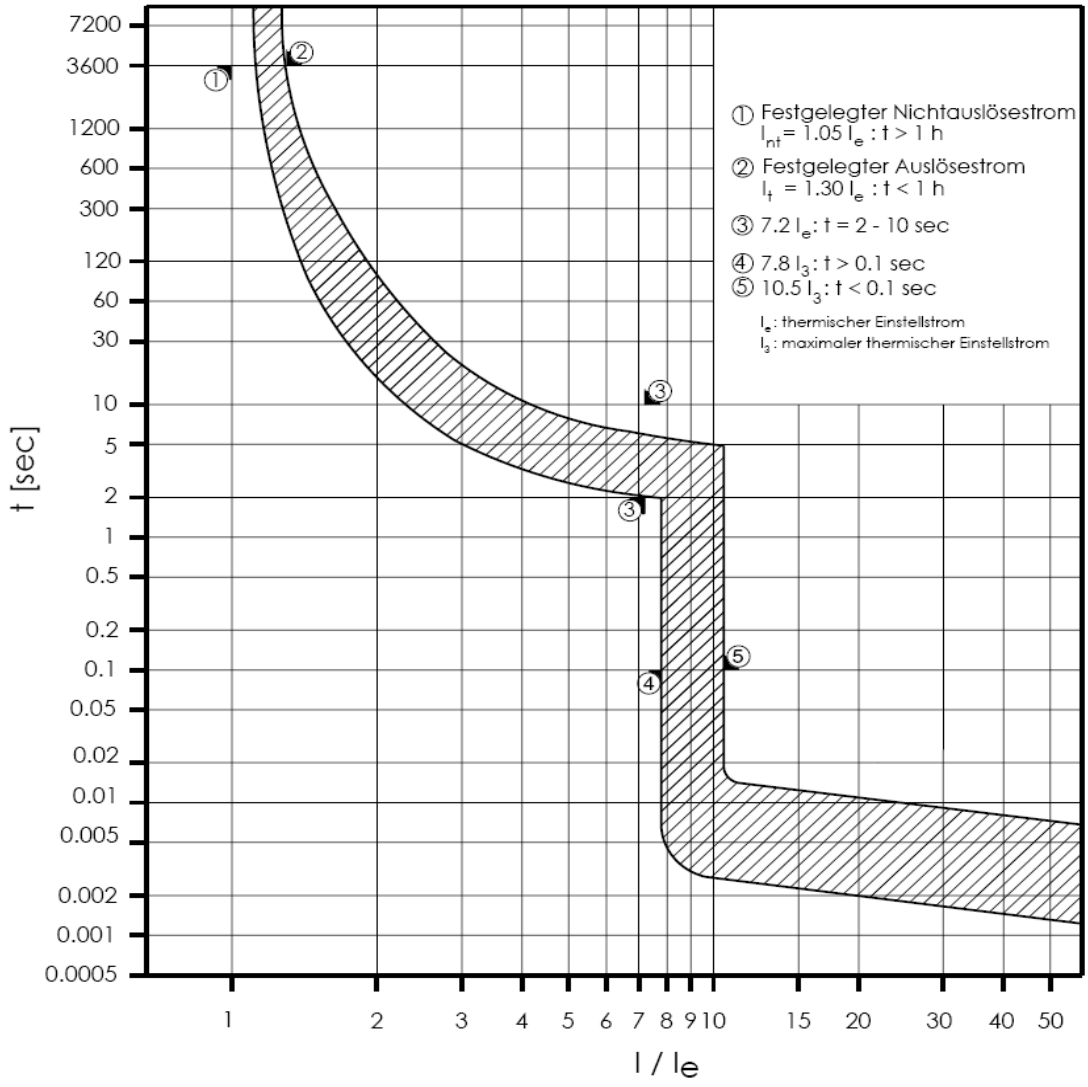
number of poles:	2, 3
Width of cover:	2 PU, 3 PU (1 PU = 17.7 mm)
Dimension of the cap:	45 mm
Dimension of the socket:	80 mm
High of the terminal body:	60 mm
Weight:	244 / 366 g
Terminal:	Multi-purpose terminal (lift/open mouthed)
Terminal capacity:	single / stranded 1 x (1 - 25) mm²
	stranded with ferrule 1 x (0.75 - 16) mm²
Type of screw:	M5, Pozidriv
Terminal-torque:	max. 2.4 Nm
Finger- and hand touch safe:	in according to VBG 4, ÖVE EN-6

POWER DISSIPATION

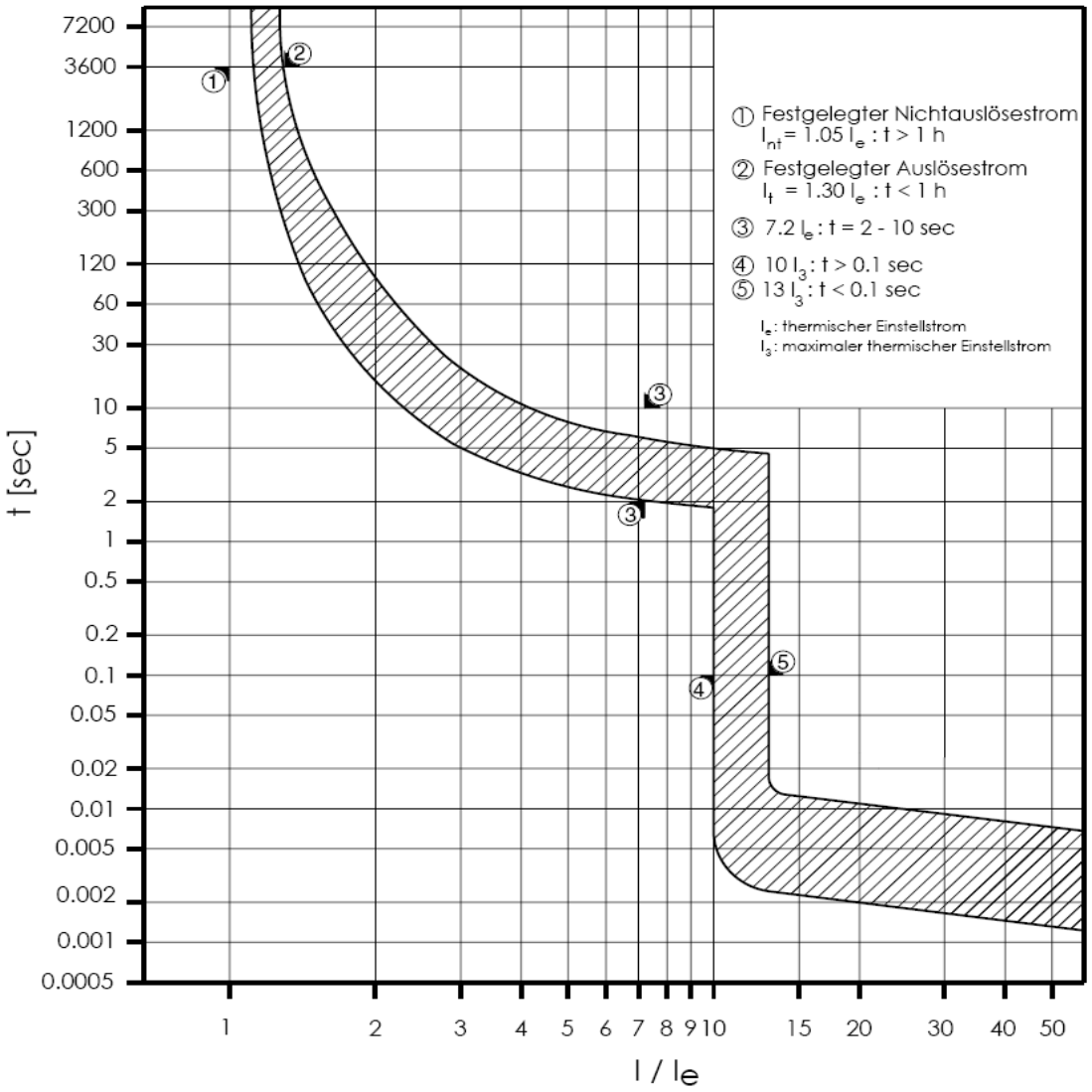
Type:	adjustable range:	P (2pole)	P (3pole)
0,16 A	0,10 - 0,16 A	5,1 W	7,7 W
0,25 A	0,16 - 0,25 A	5,3 W	7,9 W
0,4 A	0,25 - 0,4 A	3,9 W	5,8 W
0,63 A	0,4 - 0,63 A	3,5 W	5,3 W
1 A	0,63 - 1 A	4,3 W	6,5 W
1,6 A	1 - 1,6 A	3,6 W	5,4 W
2,5 A	1,6 - 2,5 A	3,7 W	5,5 W
4 A	2,5 - 4 A	3,9 W	5,9 W
6,3 A	4 - 6,3 A	5,1 W	7,6 W
10 A	6,3 - 10 A	4,7 W	7,0 W
16 A	10 - 16 A	6,0 W	9,0 W
25 A	16 - 25 A	8,3 W	12,5 W
40 A	25 - 40 A	7,9 W	11,8 W

TRIPPING CHARACTERISTIC

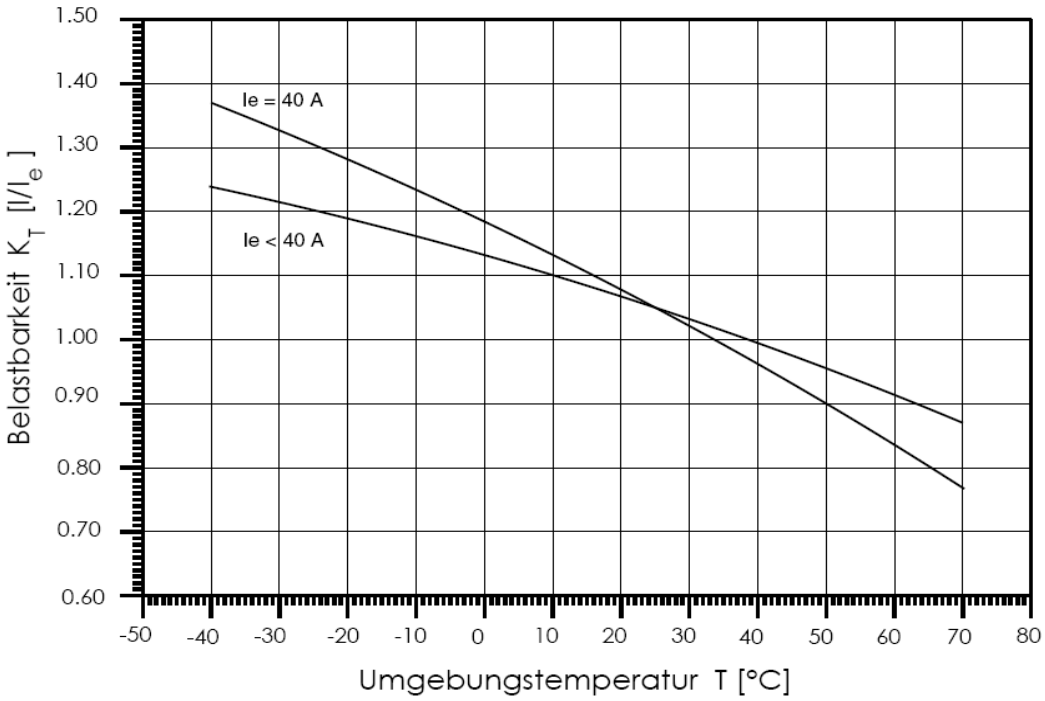
Type: 0.16A, 0,25A, 0,4A, 0,63A, 10A



Type: 1A, 1,6A, 2,5A, 4A, 6,3A, 16A, 25A, 40A



EFFECT OF THE AMBIENT TEMPERATURE



Zulässige Dauerbelastung I_L bei Umgebungstemperatur T: $I_L(T) = I_e K_T(T)$

BACK UP FUSE AND RATED BREAKING CAPACITY

Type:	adjustable range:	max. back up fuse:	Rated breaking capacity (kA)
0,16 A	0,10 - 0,16 A	---	120 [1)]
0,25 A	0,16 - 0,25 A	---	120 [1)]
0,4 A	0,25 - 0,4 A	---	120 [1)]
0,63 A	0,4 - 0,63 A	---	120 [1)]
1 A	0,63 - 1 A	---	120 [1)]
1,6 A	1 - 1,6 A	---	120 [1)]
2,5 A	1,6 - 2,5 A	---	120 [1)]
4 A	2,5 - 4 A	---	120 [1)]
6,3 A	4 - 6,3 A	100 A gL/gG	10 [2)]
10 A	6,3 - 10 A	100 A gL/gG	10 [2)]
16 A	10 - 16 A	100 A gL/gG	10 [2)]
25 A	16 - 25 A	100 A gL/gG	10 [2)]
40 A	25 - 40 A	100 A gL/gG	10 [2)]

*) at short-current up to breaking capacity no back up fuse necessary
1) I_{eff} = 120 kA / cos φ = 0.2 / “O”
2) I_{cn} = 10 kA (EN 60898)

REFERENCE NOTE

The motor protective devices are in according of EN60947-2.
These devices has no protection against loss of phase and it is not suitable for special applications, for example compressors for freezer.