

## DATA SHEET: MOTOR SAFETY SWITCH SERIES MP



### TECHNICAL DATA

**Electrical data:**

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 $\mu$ sec)
Rated isolation voltage $U_i$ :	440 V
Ambient temperature:	+20°C
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°C up to +70°C (Effect of the ambient temperature graphic)
Rated braking capacity $I_{en}$ :	10 kA (O - t - CO)
Application braking capacity $I_{es}$ :	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“

## TECHNICAL DATA – continued

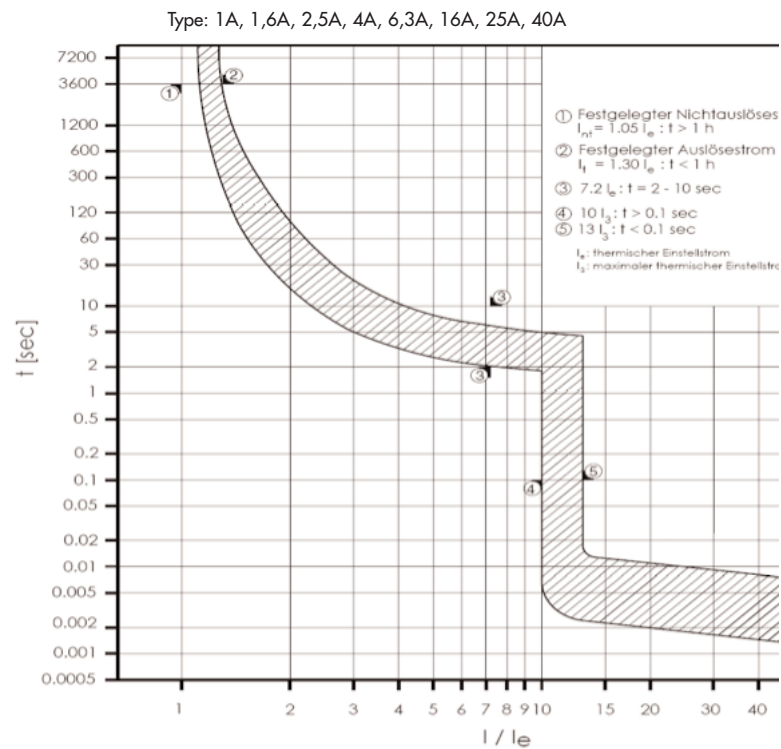
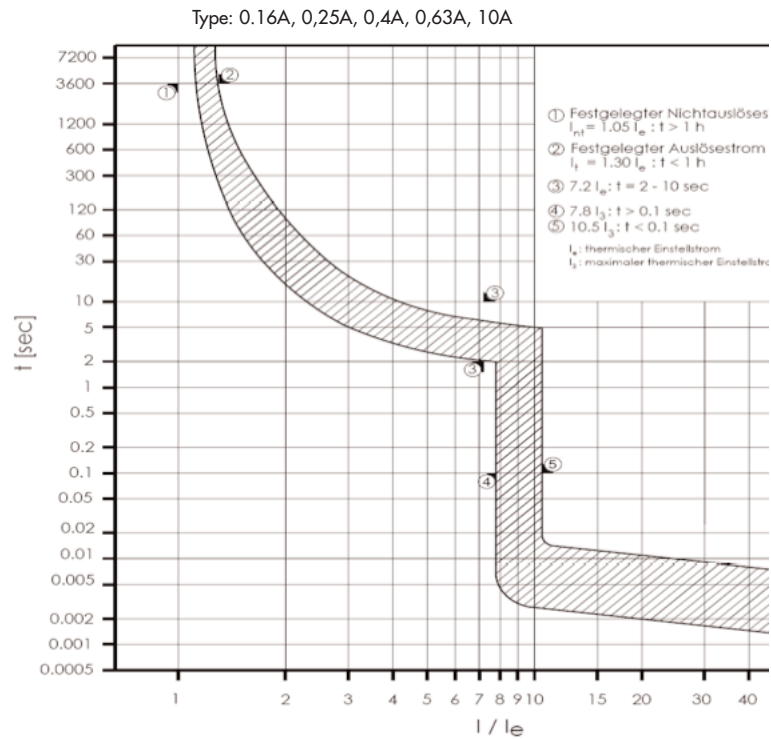
### Mechanical data:

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) mm <sup>2</sup> stranded with ferrule 1 x (0.75 - 16) mm <sup>2</sup>
Type of screw:	M5, Pozidriv
Terminal-torque:	max. 2.4 Nm
Finger- and hand touch safe:	in according to VBG 4, ÖVE EN-6

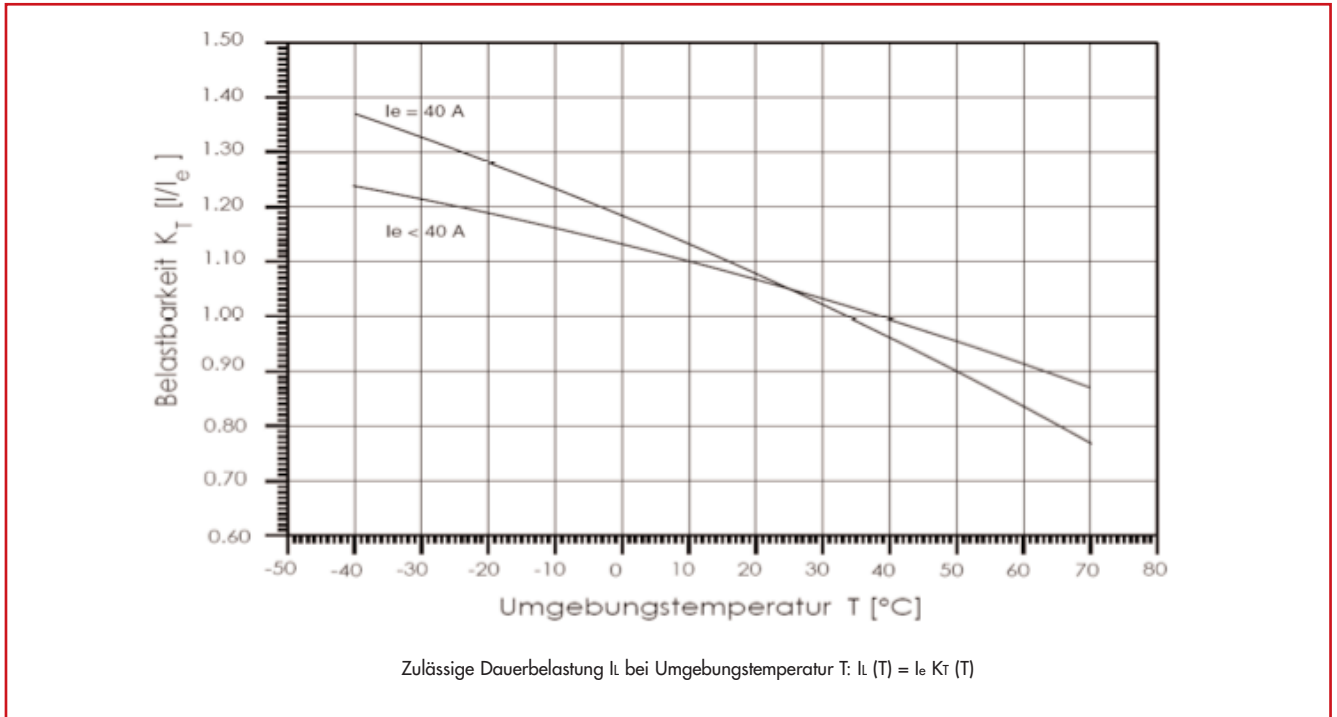
## POWER DISSIPATION

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
0,40 A	0,25 - 0,40 A	3,9 W	5,8 W
0,63 A	0,40 - 0,63 A	3,5 W	5,3 W
1,00 A	0,63 - 1,00 A	4,3 W	6,5 W
1,60 A	1,00 - 1,60 A	3,6 W	5,4 W
2,50 A	1,60 - 2,50 A	3,7 W	5,5 W
4,00 A	2,50 - 4,00 A	3,9 W	5,9 W
6,30 A	4,00 - 6,30 A	5,1 W	7,6 W
10,00 A	6,30 - 10,00 A	4,7 W	7,0 W
16,00 A	10,00 - 16,00 A	6,0 W	9,0 W
25,00 A	16,00 - 25,00 A	8,3 W	12,5 W
40,00 A	25,00 - 40,00 A	7,9 W	11,8 W

TRIPPING CHARACTERISTIC



## ■ EFFECT OF THE AMBIENT TEMPERATURE



## ■ BACK UP FUSE AND RATED BREAKING CAPACITY

Type:	Adjustable range:	Max. back up fuse:	Rated braking capacity (kA)
0,16 A	0,10 - 0,16 A	---	120 <sup>1)</sup>
0,25 A	0,16 - 0,25 A	---	120 <sup>1)</sup>
0,40 A	0,25 - 0,40 A	---	120 <sup>1)</sup>
0,63 A	0,40 - 0,63 A	---	120 <sup>1)</sup>
1,00 A	0,63 - 1,00 A	---	120 <sup>1)</sup>
1,60 A	1,00 - 1,60 A	---	120 <sup>1)</sup>
2,50 A	1,60 - 2,50 A	---	120 <sup>1)</sup>
4,00 A	2,50 - 4,00 A	---	120 <sup>1)</sup>
6,30 A	4,00 - 6,30 A	100 A gL/gG	10 <sup>2)</sup>
10,00 A	6,30 - 10,00 A	100 A gL/gG	10 <sup>2)</sup>
16,00 A	10,00 - 16,00 A	100 A gL/gG	10 <sup>2)</sup>
25,00 A	16,00 - 25,00 A	100 A gL/gG	10 <sup>2)</sup>
40,00 A	25,00 - 40,00 A	100 A gL/gG	10 <sup>2)</sup>

\*) at short-current up to breaking capacity no back up fuse necessary

<sup>1)</sup>  $I_{eff} = 120 \text{ kA} / \cos \phi = 0.2 / "O"$

<sup>2)</sup>  $I_{cn} = 10 \text{ kA (EN 60898)}$

## ■ 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.