

# Proximity switching from 16 A to 80 A

## technical characteristics

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Conform to IEC EN 60947-3

UL - cUL (USA - Canada) agreements. Class II box installed (if correct use of isolating caps supplied with box)

IP 40 and IP 65 - IK 07

Operating temperature: - 30 °C to + 70 °C

Box self-extinguishing: 650 °C/ 960 °C (acc. to IEC 695-2-1)

Degree of protection: IP 2X (at back of panel)

IP 65 for boxes

IP 65 for complete devices

Tropical atmosphere acc. to:

IEC 682-3 constant humid heat

IEC 682-30 cyclical humid heat

Padlockable devices

General case: up to 3 padlocks Ø4 to 8 mm

Device with 1 auxiliary contact OF: up to 3 padlocks Ø6 to 8 mm

		20 A	25 A	32 A	50 A	63 A	80 A
Rated insulation voltage $U_i$	V	690	690	690	690	690	690
Conventional free air thermal current (I <sub>th</sub> )							
Continuous rated current $I_u$	A	20	25	32	50	63	80
Conventional enclosed thermal current $I_{the}$	A	16	20	25	40	50	63
Rated impulse withstand voltage $U_{imp}^{(1)}$ (kV)		4	6	6	6	6	6
Rated operating current (A)							
AC - 21 A / 22 A							
Conforming to IEC 60947-3	A	16	25	32	50	63	80
Rated operating power (kW)							
AC - 23 A							
3 x 230 V	kW	4	5.5	5.5	15	15	18.5
	A	14.5	20	20	50	50	63
3 x 400 V	kW	7.5	7.5	11	18.5	22	30
	A	15	15	21	35	42	57
3 x 500 V	kW	7.5	7.5	11	22	30	37
	A	12	12	17	33	45	55
3 x 690 V	kW	7.5	7.5	11	18.5	22	22
	A	9	9	12	20	24	24
AC - 3							
3 x 230 V	kW	3	4	4	7.5	11	15
	A	11.5	14.5	14.5	26	38	51
3 x 400 V	KW	4	5.5	7.5	15	18.5	22
	A	8	11	15	28	35	42
3 x 500 V	KW	5.5	5.5	7.5	15	22	30
	A	9	9	12	23	33	45
3 x 690 V	KW	5.5	5.5	7.5	15	18.5	18.5
	A	6	6.5	9	16.5	20	20
<b>Closing/breaking characteristics:</b>							
Rated closing capacity	$A_{eff}/400 V$	710	710	710	1270	1270	1970
Rated breaking capacity	$A_{eff}/400 V$	330	330	330	800	800	800
<b>Short circuit characteristics:</b>							
Rated short term withstand current $I_{cw}$	$A_{eff}/400V/1s$	300	350	430	500	760	1100
Rated short circuit make capacity $I_{cm}$	kA peak/400 V	1	1	1	1.8	1.8	2.8
Short circuit current	kA $eff/400 V$	6	10	10	10	10	10
With fuse gI/gG	A	16	25	32	50	63	80
Mechanical life AC - 20	million	1	0.1	0.1	0.04	0.04	0.04
<b>Connection:</b>							
Flexible + connector (max./min)	mm <sup>2</sup>	6/0.5	6/0.75	6/0.75	16/1.5	16/1.5	35/2.5
Rigid	mm <sup>2</sup>	10	10	10	25	25	50
<b>Auxiliary contact electrical characteristics:</b>							
Rated insulation voltage (U <sub>i</sub> )	V	400	400	400	400	400	400
Conventional free air thermal current (I <sub>th</sub> )							
Continuous rated current (I <sub>u</sub> )	A	20	10	10	10	10	10
Rated operating current (I <sub>e</sub> ) AC - 15							
	230 V A	6	6	6	6	6	6
	400 V A	4	4	4	4	4	4
Protection against short circuit by fuse gG	A	16	10	10	10	10	10
Connection	flexible wire mm <sup>2</sup> max	2 x 2.5	2 x 2.5	2 x 2.5	2 x 2.5	2 x 2.5	2 x 2.5