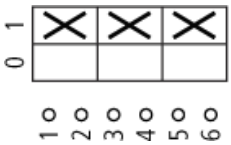
MOELLER

Type: **P5–160/E**
Article No.: **280921**



Ordering information			
Design			Flush mounting
Description			Without auxiliary contacts
Main conducting paths No. of poles		M	3
Auxiliary contacts		N/O	0
Auxiliary contacts		B	0
Max. three–phase motor rating (per set of 3 contacts) 50–60 Hz AC–3 400/415 V 50–60 Hz	*P*	kW	55
Rated uninterrupted current	I_u	A	160

Contact sequence



General			
Standards			IEC/EN 60947, VDE 0660, IEC/EN 60204, CSA,UL Switch–disconnectors to IEC/EN 60947–3
Lifespan, mechanical	Operations	× 10^6	0,1
Maximum operating frequency	Operations/h		50
Climatic proofing			Damp heat, constant, to IEC 60068–2–78; Damp heat, cyclical, to IEC 60068–2–30
Ambient temperature			

Open		°C	–-25/50
Enclosed		°C	–-25/40
Mounting position			As required
Documentation			Main catalogue HPL
Contacts			
Rated operational voltage	U_e	V AC	690
Rated impulse withstand voltage	U_{imp}	V AC	8000
Overvoltage category/pollution degree			III/3
Load–carrying capacity in intermittent operation, Class 12			
AB 25 % DF		× I_e	2
AB 40 % DF		× I_e	1,6
AB 60 % DF		× I_e	1,3
Short–circuit rating			
Fuse		A gG/gL	125
Rated short–time withstand current (1 s current)	I_{cw}	A_{rms}	2500
Switching angles		°	90
Current heat loss per contact at I_e		W	8
Terminal capacities			
Solid or stranded		mm^2	1 × (10 – 95) 2 × (10 – 35)
Flexible with ferrule to DIN 46228		mm^2	1 × (16 – 70) 2 × (16 – 25)
Terminal screw			Allen screw 5
Tightening torque		Nm	14
Switching capacity			
AC			
Rated making capacity cos = 0.35		A	850
Rated breaking capacity, motor load switch cos = 0.35			
230 V		A	800
400 V		A	750
500 V		A	650
690 V		A	340
Rated operational current 440 V load–break switch AC–21A	I_e	A	125
AC–3 motor load switch motor rating			

230 V	*P*	kW	22
400 V	*P*	kW	37
690 V	*P*	kW	30
AC–23A Motor load switches (main switches maintenance switches)			
230 V	*P*	kW	30
400 V	*P*	kW	45
690 V	*P*	kW	37
DC			
DC–1, Load–break switches L/R = 1 ms			
Rated operational current	I_e	A	125
Voltage per contact pair in series		V	42
DC–23A, Motor load switches L/R = 15 ms			
24 V			
Rated operational current	I_e	A	125
Contacts		Quantity	3
48 V			
Rated operational current	I_e	A	125
Contacts		Quantity	3
60 V			
Rated operational current	I_e	A	125
Contacts		Quantity	3
120 V			
Rated operational current	I_e	A	40
Contacts		Quantity	3
Notes			
			Main switch characteristics to IEC/EN 60204; positive opening of contacts, operator element positively located on shaft The rated uninterrupted current I_u is stated at max. connected cross–section. For terminal capacity solid, stranded and flexible: Max. 2 cross–section sizes difference admissible when using 2 conductors.
Dimensions			

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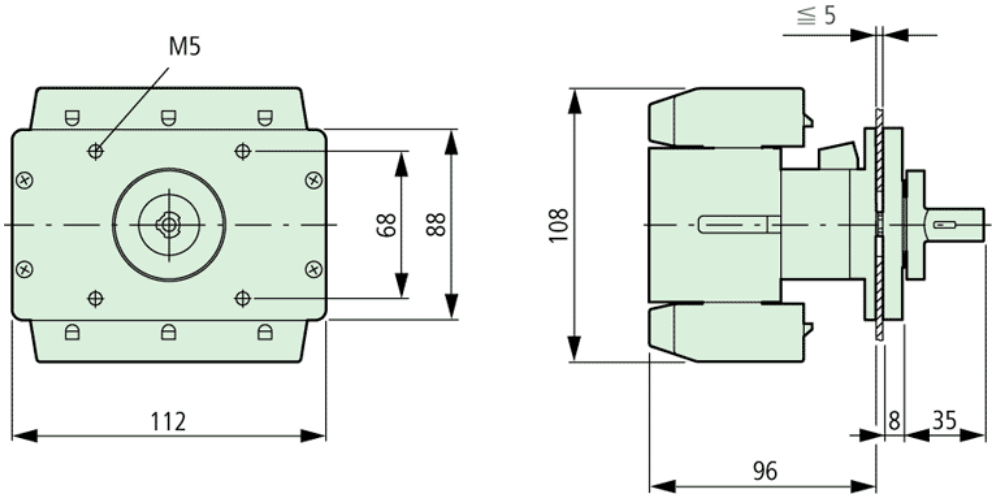

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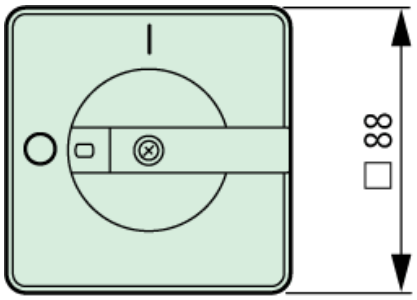

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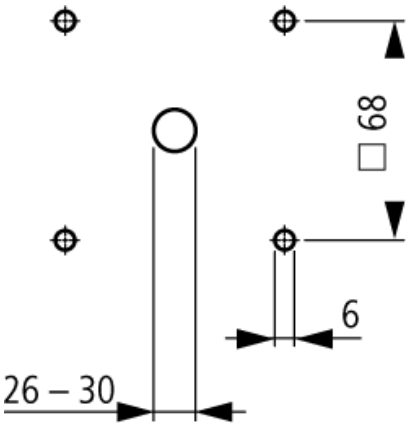

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