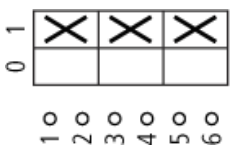
MOELLER

Type: **P3–100/EA/SVB**
Article No.: **074320**

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	50
Rated uninterrupted current	I_u	A	100
Note for table header			According to IEC/EN 60204–1, VDE 0113 Part 1; with red rotary handle and yellow locking collar, lockable in 0 position

Contact sequence



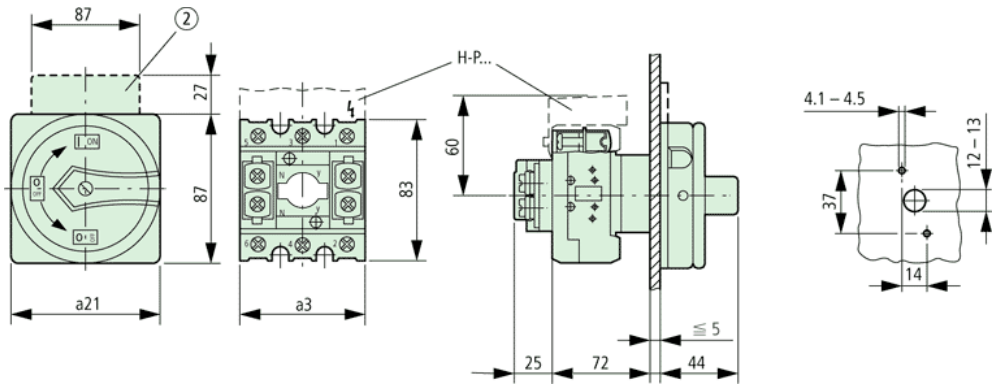
General			
Standards			IEC/EN 60 947, VDE 0660, IEC/EN 60 204, CSA,UL Switch–disconnectors to

			IEC/EN 60 947–3 NEMA3R, NEMA12, NEMA13
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
Mechanical shock resistance (shock duration 20 ms)		g	> 15
Contacts			
Rated operational voltage	U_e	V AC	690
Rated impulse withstand voltage	U_{imp}	V AC	6000
Overvoltage category/pollution degree			III/3
Rated uninterrupted current			
open	I_u	A	100
Enclosed	I_u	A	100
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	100
Rated short–time withstand current (1 s current)	I_{cw}	A_{rms}	2000
Switching angles		°	90
Current heat loss per contact at I_e		W	7,5
Terminal capacities			
Solid or stranded		mm^2	1 × (2.5 – 35) 2 × (2.5 – 10)
Flexible with ferrule to DIN 46228		mm^2	1 × (1.5 – 25) 2 × (1.5 – 6)
Terminal screw			M5
Tightening torque		Nm	3

Switching capacity			
AC			
Rated making capacity cos = 0.35		A	950
Rated breaking capacity, motor load switch cos = 0.35			
230 V		A	760
400 V		A	740
500 V		A	880
690 V		A	520
Rated operational current 440 V load–break switch AC–21A	I_e	A	100
AC–3 motor load switch motor rating			
230 V	*P*	kW	22
400 V	*P*	kW	37
500 V	*P*	kW	45
690 V	*P*	kW	37
AC–23A Motor load switches (main switches maintenance switches)			
230 V	*P*	kW	30
400 V	*P*	kW	50
500 V	*P*	kW	65
690 V	*P*	kW	45
DC			
DC–1, Load–break switches L/R = 1 ms			
Rated operational current	I_e	A	100
Voltage per contact pair in series		V	60
DC–23A, Motor load switches L/R = 15 ms			
24 V			
Rated operational current	I_e	A	50
Contacts		Quantity	1
48 V			
Rated operational current	I_e	A	50
Contacts		Quantity	2
60 V			
Rated operational current	I_e	A	50
Contacts		Quantity	3

120 V			
Rated operational current	I_e	A	25
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			
			Not included
			3 padlocks
Explaination			The blocked rotor current of the motor should not exceed the rated current of the switch for AC–21A to ensure a reasonable device lifespan. For utilisation category AC–4 (extreme load: 100 % inching, reversing or plugging)

Dimensions



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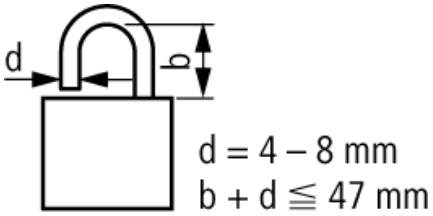
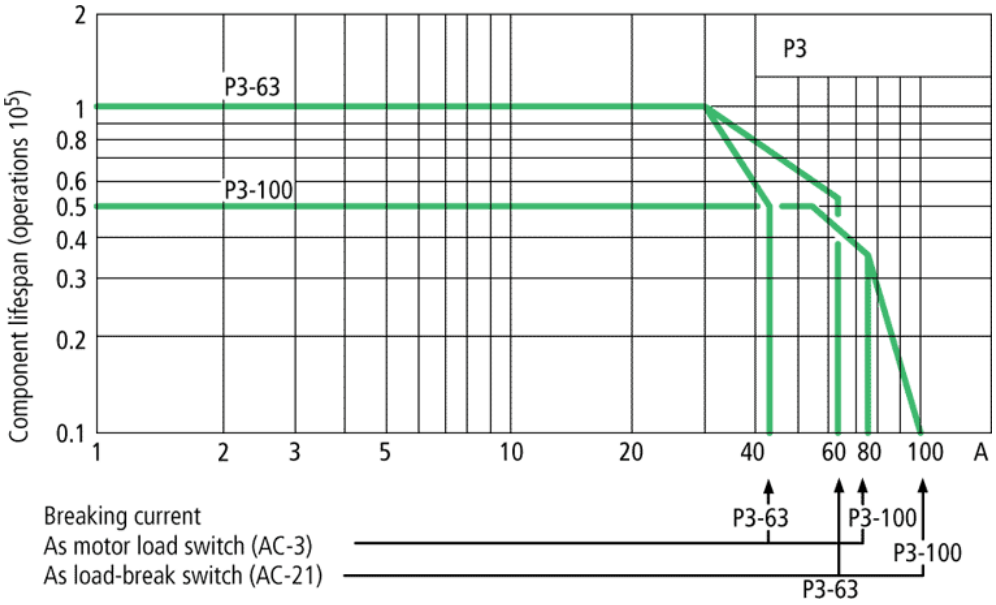


Characteristic curve



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