



## Main switch Flush mounting

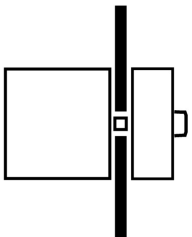
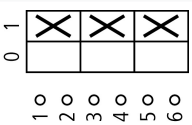
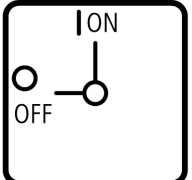


Powering Business Worldwide™

**Part no.** P3-100/EA/SVB  
**Article no.** 074320

Front IP65

### Delivery programme

Product range			Switch-disconnectors
Basic function			Main switches Maintenance switches Manual override switches
Part group reference			P3
Design			Flush mounting
			
Protection type			Front IP65
Emergency stop			As an emergency switching off/emergency stop device
			With red rotary handle and yellow locking ring
Standards			According to IEC/EN 60204-1, VDE 0113 Part 1
Locking facility			Lockable in the 0 (Off) position
			without auxiliary contacts
Contact sequence			
Front plate no.			 <b>FS 908</b>
Main conducting paths			
No. of poles		M	3
Auxiliary contacts		N/O	0
		B	0
Max. motor rating			
AC-23A			
400/415 V 50-60 Hz			
400 V	P	kW	50
Rated uninterrupted current	I <sub>u</sub>	A	100

### Approvals

Product Standards  
 UL File No.  
 UL CCN  
 CSA File No.  
 CSA Class No.  
 NA Certification  
 Suitable for  
 Degree of Protection

UL 508; CSA-C22.2 No. 14-05; IEC/EN 60947-3; CE marking  
 E36332  
 NLRV  
 12528  
 3211-05  
 UL listed, CSA certified  
 Branch circuits, suitable as motor disconnect  
 IEC: IP65; UL/CSA Type 3R, 12

## 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	$\times 10^6$	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		°C	
Open		°C	- 25 - 50
Enclosed		°C	- 25 - 40
Mounting position			As required
Mechanical shock resistance to IEC 60068-2-27	Half-sinusoidal shock 20 ms	g	> 15

## Contacts

Rated operational voltage	$U_e$	V AC	690
Rated impulse withstand voltage	$U_{imp}$	V AC	6000
Overtoltage category/pollution degree			III/3
Rated uninterrupted current	$I_u$	A	
open	$I_u$	A	100
Enclosed	$I_u$	A	100
Load rating with intermittent operation, class 12			
AB 25 % DF		$\times I_e$	2
AB 40 % DF		$\times I_e$	1.6
AB 60 % DF		$\times I_e$	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 <sup>2</sup>	1 x (2.5 - 35) 2 x (2.5 - 10)
Flexible with ferrules to DIN 46228		mm <sup>2</sup>	
Flexible with ferrule		mm <sup>2</sup>	1 x (1.5 - 25) 2 x (1.5 - 6)
Terminal screw			M5
Tightening torque		Nm	3

## Switching capacity

AC		$\times U_s$	
Rated making capacity $\cos \varphi = 0.35$		A	950
Rated breaking capacity, motor load switch $\cos \varphi = 0.35$		A	
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
Rating, AC-3 motor load switch	P	kW	
220 V 230 V	P	kW	22
380 V 400 V	P	kW	40
500 V	P	kW	45
660 V 690 V	P	kW	22

AC-23A Motor load switches (main switches maintenance switches)	P	kW	
230 V	P	kW	30
400 V	P	kW	50
500 V	P	kW	67
690 V	P	kW	65
DC		x U <sub>s</sub>	
DC-1, Load-break switches L/R = 1 ms			
Rated operational current	I <sub>e</sub>	A	100
Voltage per contact pair in series		V	60
DC-23A, motor load switch L/R = 15 ms			
24 V			
Rated operational current	I <sub>e</sub>	A	50
Contacts		Quantity	1
48 V			
Rated operational current	I <sub>e</sub>	A	50
Contacts		Quantity	2
60 V			
Rated operational current	I <sub>e</sub>	A	50
Contacts		Quantity	3
120 V			
Rated operational current	I <sub>e</sub>	A	25
Contacts		Quantity	3

### Auxiliary contacts

Standards According to IEC/EN 60204-1, VDE 0113 Part 1

### Notes

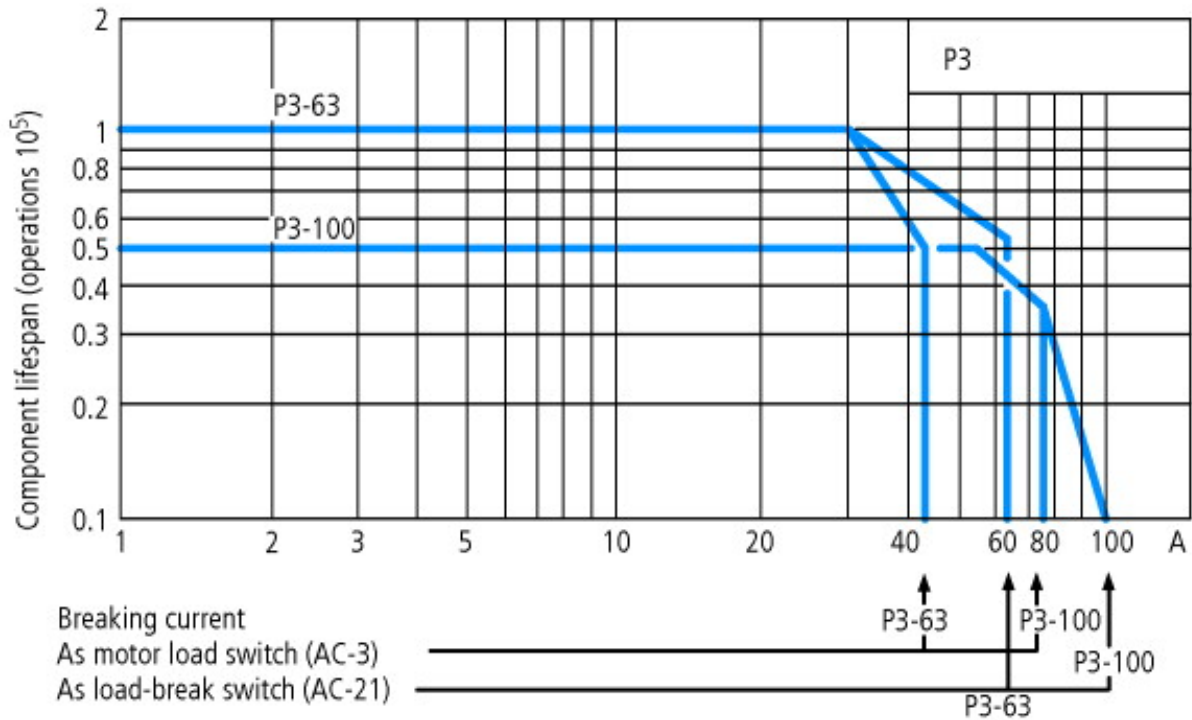
**Notes** Main switch characteristics to IEC/EN 60204; positive opening of contacts, operator element positively located on shaft  
The rated uninterrupted current I<sub>u</sub> is stated at max. connected cross-section.  
For terminal capacity solid, stranded and flexible:  
Max. 2 cross-section sizes difference admissible when using 2 conductors.

### Technical data ETIM 4.0

Number of auxiliary contacts as normally open contact			0
Number of auxiliary contacts as normally closed contact			0
Rated permanent current I <sub>u</sub>		A	100
Number of poles			3
Conditioned rated short-circuit current I <sub>q</sub>		kA	0
Degree of protection (IP), front side			IP65
Number of auxiliary contacts as change-over contact			0
Interlockable			YES
Motor drive integrated			No
Connection type main current circuit			Screw connection
Version as emergency stop installation			YES
Type of control element			-
Version as main switch			YES
Version as switch disconnecter compact			YES
Version as safety switch			No
Version as maintenance-/service switch			YES
Rated operation power at AC-23, 400V		kWh	50
Rated operation power AC-3, 400 V		kWh	37
Suitable for ground mounting			No
Suitable for front mounting			No
Suitable for front mounting center			No
Suitable for distribution board installation			No
Suitable for intermediate mounting			No
Max. rated operation voltage U <sub>e</sub> AC		V	690
Motor drive optional			No

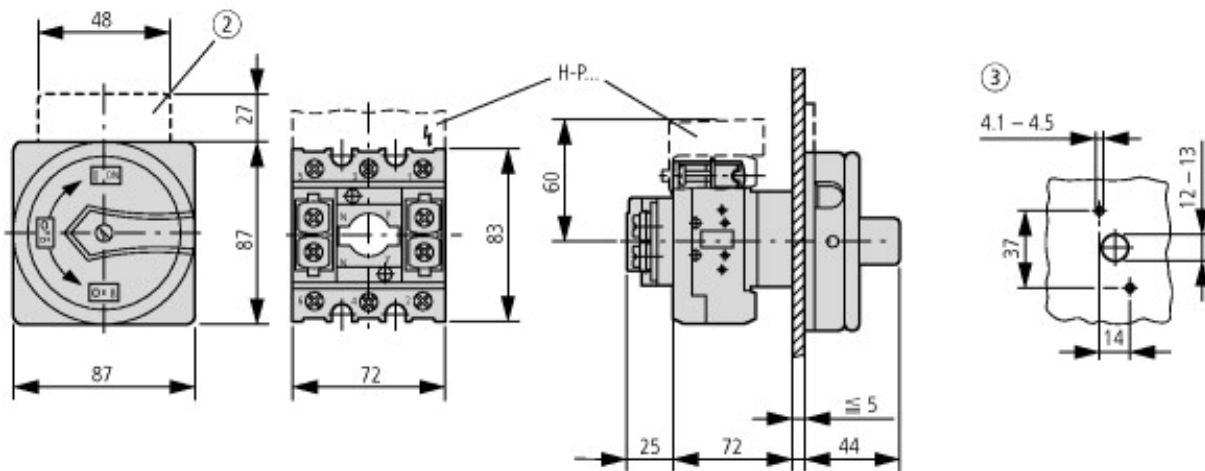
Voltage release optional		No
Device construction		Built-in device fixed built-in technique

### Characteristics

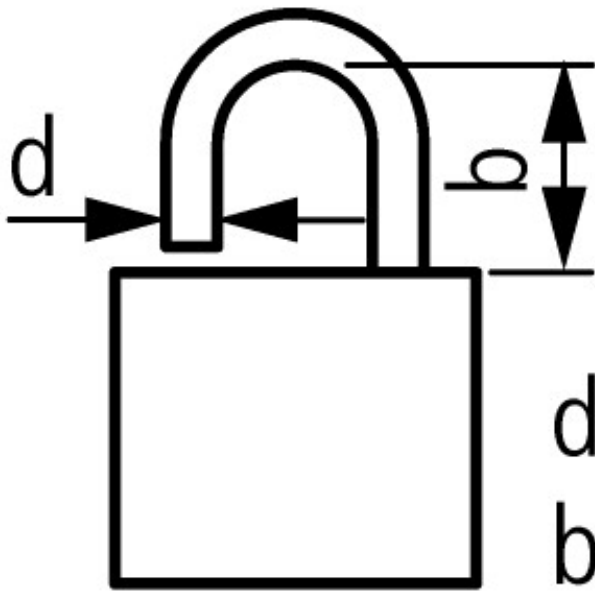


For utilisation category AC-4 (extreme load: 100 % inching, reversing or plugging)  
 The blocked rotor current of the motor should not exceed the rated current of the switch for AC-21A to ensure a reasonable device lifespan.


### Dimensions



(2) Label mount not included as standard



$$d = 4 - 8 \text{ mm}$$
$$b + d \leq 47 \text{ mm}$$

 3 padlocks

#### Additional product information (links)

IL03802002Z (AWA1150-1690) Switch-Disconnectors for flush mounting

IL03802002Z (AWA1150-1690) Switch-Disconnectors for flush mounting

[ftp://ftp.moeller.net/DOCUMENTATION/AWA\\_INSTRUCTIONS/IL03802002Z2011\\_06.pdf](ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03802002Z2011_06.pdf)

<http://ecat.moeller.net/flip-cat/?edition=HPLEN&startpage=4.87>