



### Main switchSurface mounting

**Part no.**  
**Article no.**

**P1-25/I2H/SVB**  
**226900**

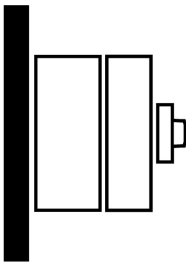
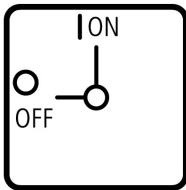
**Catalog No.**

**SP1-025-I2HCRQ**



Powering Business Worldwide™

## Delivery programme

Product range			Switch-disconnectors T, P																
Basic function			Main switches Maintenance switches Manual override switches																
Part group reference			P1																
																			
Protection type			IP65																
			<b>totally insulated</b>																
Emergency stop			as emergency switching off/emergency stop function																
			With red rotary handle and yellow locking ring																
Locking facility			Lockable in the 0 (Off) position																
			without auxiliary contacts																
Contacts			auxiliary contact fitted by user																
Contact sequence			<table border="1"><tr><td>1</td><td>X</td><td>X</td><td>X</td></tr><tr><td>0</td><td></td><td></td><td></td></tr><tr><td></td><td>1</td><td>2</td><td>3</td></tr><tr><td></td><td>4</td><td>5</td><td>6</td></tr></table>	1	X	X	X	0					1	2	3		4	5	6
1	X	X	X																
0																			
	1	2	3																
	4	5	6																
Front plate no.			 <b>FS 908</b>																
Main conducting paths																			
main circuits poles		M	3																
Auxiliary contacts																			
		N/O	0																
		B	0																
Max. motor rating																			
AC-23A																			
400/415 V 50-60 Hz	P	kW	13																
Rated uninterrupted current	I <sub>u</sub>	A	25																

## General

Standards			IEC/EN 60947, VDE 0660, IEC/EN 60204, CSA, UL switch disconnecter according to IEC/EN 60947-3
Lifespan, mechanical	Operations	x 10 <sup>6</sup>	0.3
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 <sub>e</sub>	V AC	690
Rated impulse withstand voltage	U <sub>imp</sub>	V AC	6000
Overvoltage category/pollution degree			III/3
Rated uninterrupted current	I <sub>u</sub>	A	
Rated uninterrupted current	I <sub>u</sub>	A	25
open	I <sub>u</sub>	A	25
Enclosed	I <sub>u</sub>	A	25
Load rating with intermittent operation, class 12			
AB 25 % DF		x I <sub>e</sub>	2
AB 40 % DF		x I <sub>e</sub>	1.6
AB 60 % DF		x I <sub>e</sub>	1.3
Short-circuit rating			
Fuse		A gG/ gL	25
Rated short-time withstand current (1 s current)	I <sub>cw</sub>	A <sub>rms</sub>	640
Protection against direct contact			Finger and back-of-hand proof to IEC 100
Switching angles		°	90
Current heat loss per contact at I <sub>e</sub>		W	1.1

## Switching capacity

AC		x U <sub>s</sub>	
cos φ rated making capacity as per IEC 60947-3		A	240
Bemessungsausschaltvermögen cos φ nach IEC 60947-3		A	
230 V		A	190
400/415 V		A	150
500 V		A	170
690 V		A	150
440 V	I <sub>e</sub>	A	25
Rating, motor load switch	P	kW	
220 V 230 V	P	kW	5.5
380 V 400 V	P	kW	7.5
500 V	P	kW	7.5
660 V 690 V	P	kW	7.5
Bemessungsbetriebsleistung AC-23A, 50 - 60 Hz	P	kW	
230 V	P	kW	7
400 V	P	kW	13
500 V	P	kW	11
690 V	P	kW	11
DC		x U <sub>s</sub>	

DC-1, Load-break switches L/R = 1 ms			
Rated operational current	I <sub>e</sub>	A	25
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	25
Contacts		Quantity	1
48 V			
Rated operational current	I <sub>e</sub>	A	25
Contacts		Quantity	2
60 V			
Rated operational current	I <sub>e</sub>	A	25
Contacts		Quantity	3
120 V			
Rated operational current	I <sub>e</sub>	A	12
Contacts		Quantity	3

### Terminal capacities

Solid or stranded		mm <sup>2</sup>	1 x (1.5 - 6) 2 x (1.5 - 6)
Flexible with ferrules to DIN 46228		mm <sup>2</sup>	1 x (1 - 4) 2 x (1 - 4)
Terminal screw			M4
Tightening torque		Nm	1.6
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 5.0

Low-voltage industrial components (EG000017) / Switch disconnecter (EC000216)

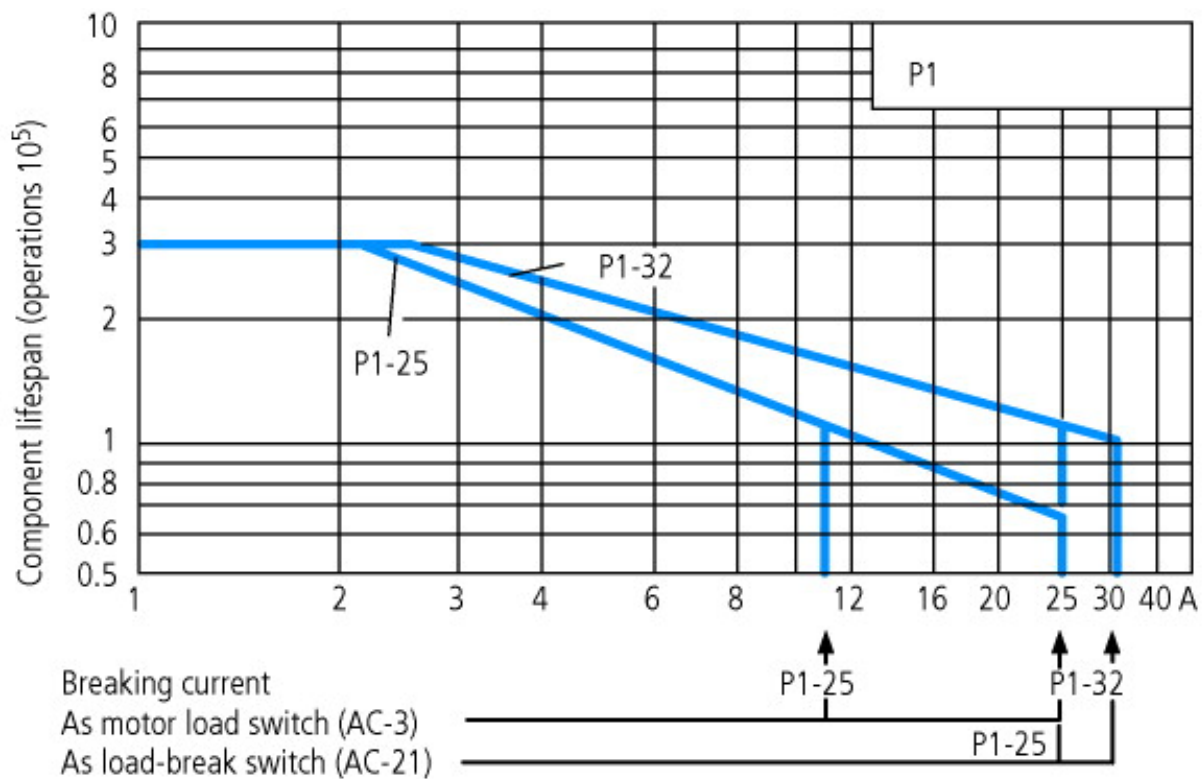
Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Switch disconnecter  
(ec1@ss8-27-37-14-03 [AKF060009])

Version as switch disconnecter compact			Yes
Version as main switch			Yes
Version as maintenance-/service switch			Yes
Version as safety switch			No
Version as emergency stop installation			Yes
Max. rated operation voltage U <sub>e</sub> AC		V	690
Rated permanent current I <sub>u</sub>		A	25
Rated operation power AC-3, 400 V		kW	7.5
Rated operation power at AC-23, 400 V		kW	13
Conditioned rated short-circuit current I <sub>q</sub>		kA	0
Number of poles			3
Number of auxiliary contacts as normally closed contact			0
Number of auxiliary contacts as normally open contact			0
Number of auxiliary contacts as change-over contact			0
Motor drive optional			No
Motor drive integrated			No
Voltage release optional			No
Device construction			Complete device in housing
Suitable for ground mounting			Yes
Suitable for front mounting			No
Suitable for front mounting center			No

Suitable for distribution board installation		No
Suitable for intermediate mounting		No
Type of control element		-
Interlockable		Yes
Connection type main current circuit		Screw connection
Degree of protection (IP), front side		IP65

## Characteristics

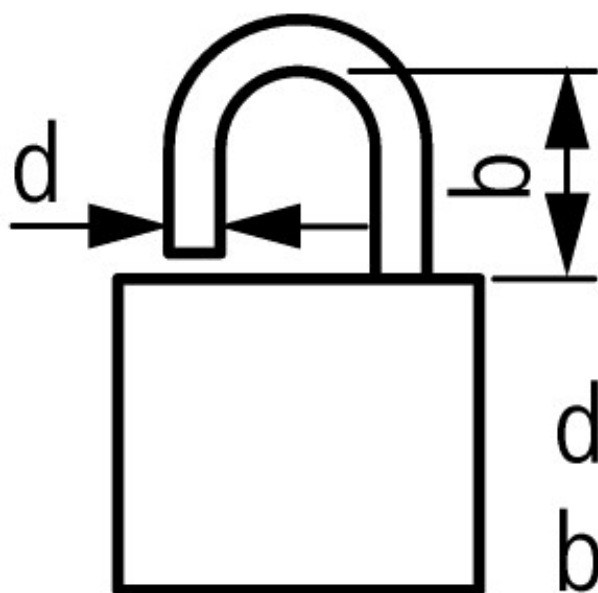
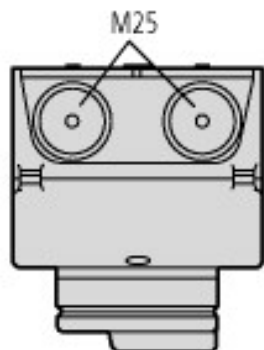
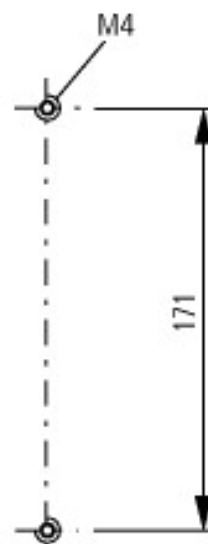
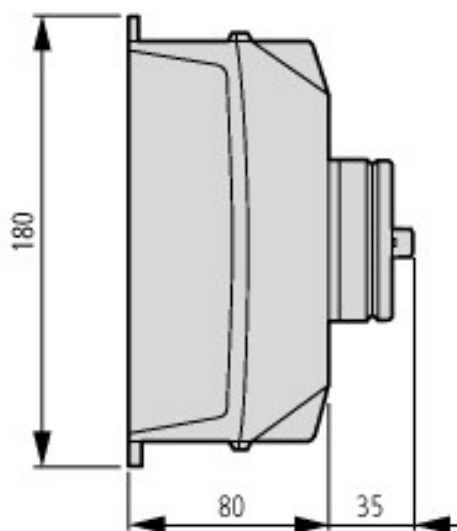
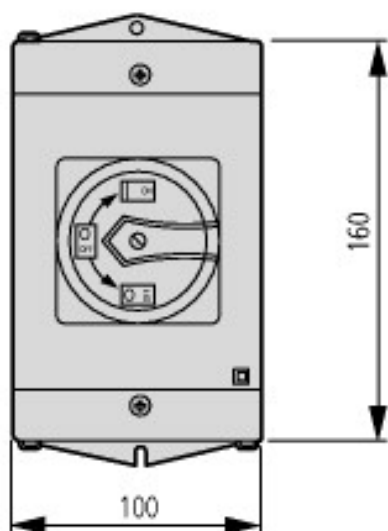
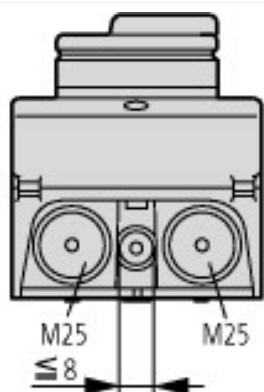
Characteristic curves



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



$$d = 4 - 8 \text{ mm}$$

$$b + d \leq 47 \text{ mm}$$



## Additional product information (links)

### **IL03802001Z (AWA1150-1689) Switch-Disconnectors in insulated enclosures**

IL03802001Z (AWA1150-1689) Switch-Disconnectors in insulated enclosures

[ftp://ftp.moeller.net/DOCUMENTATION/AWA\\_INSTRUCTIONS/IL03802001Z2011\\_06.pdf](ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03802001Z2011_06.pdf)

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