DATASHEET - P1-25/EA/SVB/2HI11



Main switch, P1, 25 A, flush mounting, 3 pole, 2 N/O, 2 N/C, Emergency switching off function, With red rotary handle and yellow locking ring



Part no. P1-25/EA/SVB/2HI11 Catalog No. 012464

Delivery program			
Product range			Main switch maintenance switch Repair switch
Part group reference			P1
Stop Function			Emergency switching off function
			With red rotary handle and yellow locking ring
Number of poles			3 pole
Auxiliary contacts			
1		N/0	2
7		N/C	2
Degree of Protection			Front IP65
Design			flush mounting
Function			O OFF
Motor rating AC-23A, 50 - 60 Hz			
400 V	P	kW	11
Rated uninterrupted current	I _u	Α	25

Technical data

Note on rated uninterrupted current !u

General			
Standards			IEC/EN 60947, VDE 0660, IEC/EN 60204, CSA, UL Switch-disconnector according to IEC/EN 60947-3 NEMA12
Climatic proofing			Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
Ambient temperature			
Open		°C	-25 - +50
Enclosed		°C	-25 - +40
Overvoltage category/pollution degree			III/3
Rated impulse withstand voltage	U_{imp}	V AC	6000
Mechanical shock resistance		g	15
Mounting position			As required

Rated uninterrupted current $\mathbf{I}_{\mathbf{u}}$ is specified for max. cross-section.

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Mechanical variables

Number of poles			3 pole
Auxiliary contacts			
		N/O	2
		N/C	2
Electrical characteristics			
Rated operational voltage	U _e	V AC	690
Rated uninterrupted current	Iu	A	25
	'u	^	Rated uninterrupted current I_u is specified for max. cross-section.
Note on rated uninterrupted current !u			nateu uninterrupteu current i _u is specineu ior max. cross-section.
Load rating with intermittent operation, class 12		1	
AB 25 % DF		x I _e	2
AB 40 % DF		x I _e	1.6
AB 60 % DF		x I _e	1.3
Short-circuit rating			
Fuse		A gG/gL	25
Rated short-time withstand current (1 s current)	I _{cw}	A _{rms}	640
Note on rated short-time withstand current lcw			Current for a time of 1 second
Rated conditional short-circuit current	I_{q}	kA	50
Switching capacity			
cos φ rated making capacity as per IEC 60947-3		Α	240
Rated breaking capacity cos φ to IEC 60947-3		Α	
230 V		Α	190
400/415 V		Α	150
500 V		Α	170
690 V		Α	150
Safe isolation to EN 61140			
between the contacts		V AC	440
Current heat loss per contact at I _e		W	1.1
Current heat loss per auxiliary circuit at I _e (AC-15/230 V)		CO	0.2
Lifespan, mechanical	Operations	x 10 ⁶	>0.3
Maximum operating frequency	Operations/h		1200
AC			
AC-3			
Rating, motor load switch	P	kW	
220 V 230 V	P	kW	5.5
400 V 415 V	P	kW	7.5
500 V	P	kW	7.5
690 V	P	kW	7.5
Rated operational current motor load switch			
230 V	I _e	Α	19.6
400V 415 V	l _e	Α	15.2
500 V	I _e	Α	12.1
690 V	I _e	Α	8.8
AC-21A			
Rated operational current switch			
440 V	l _e	Α	25
AC-23A			
Motor rating AC-23A, 50 - 60 Hz	P	kW	
230 V	P	kW	5.5
400 V 415 V	P	kW	11
500 V	P	kW	11
690 V	P	kW	11
Rated operational current motor load switch			
230 V	I _e	A	25
400 V 415 V		A	25
100 € 110 €	l _e	,,	

SOY				
CO. 1. Load Brazal workshots UR -1 ms Learn Selection Counted Learn Selection Counted Learn Selection Counted Learn Selection Counted Count		I _e		
DC-1, Load Great Name Laurent Ig	690 V	l _e	Α	12.6
Rated operational current	DC			
Votings per cantact pair is sesies V	DC-1, Load-break switches L/R = 1 ms			
DC-223A, motar riodal seatish Life = 15 ms 24	Rated operational current	l _e	Α	25
Part	Voltage per contact pair in series		٧	60
Risted aperational current	DC-23A, motor load switch L/R = 15 ms			
Contacts	24 V			
Contacts	Rated operational current	l _e	Α	25
A	Contacts		Quantity	1
Contacts	48 V			
Contacts	Rated operational current	اه	Α	25
Rand dispersional current Caramate Paul Caramate Caramat		C	Quantity	
Retail operational current I			Quantity	
Contracts		1	Λ	25
120 V Raded operational current Part		'e		
Rated operational current			uuantity	2
Contracts Family probability He contraction of the				
Control circult reliability at 24 V DC, 10 mA Faul probability He probability 10 st. 15-61 (10,000) switching operations Terminal capacities wm2 (2,15-6) x (1,5-6) x (1,5-6) Flexible with femules to DIN 46228 mm2 (2,10-4) x (1,5-6) x (1,5-6) Terminal screw mm3 (2,10-4) x (1,5-6) x (1,5-6) Terminal screw mm3 (2,10-4) x (1,5-6)		I _e		
probability Terminal capacities wm² 2x1 5.8 ll Flexible with ferrules to DIN 48228 m² 2x1 5.9 ll Terminal scraw m² 2x1 1.4 ll Tightening torque for terminal scraw m² 1x1 -4 ll Teyminal scraw m² 1x1 -4 ll Refer doperational voltage m² xx1 Risted operational voltage m² xx1 Risted operational voltage m² xx1 General tigo m² xx1 General tigo yx1 xx1 Maximum motor raing xx1 xx1 Single-phase xx1 xx1 2x0 Y AC xx1 xx1 </td <td></td> <td></td> <td></td> <td>3</td>				3
Terminal capacities Solid or stranded So	Control circuit reliability at 24 V DC, 10 mA		HF	$< 10^{-5}, < 1$ failure in 100,000 switching operations
Solid or stranded mm x15 8 cm Floodile with forrules to DIN 48228 x16 9 cm x2 x1 4 cm Tominal screw x	Terminal capacities	probability		
Pensible with ferrules to DIN 48228			mm ²	1 x (1,5 - 6)
Terminal screw Mode Tightening borque for terminal screw Note 10 kg Total safety parameters: Works BIO ₃ values as per ENISO 1849-1, table C1 Rational voltage Up VAC BOO Rated perational voltage Up VAC BOO Abusino conducting paths Up VAC BOO General Use Up A BOO Pilot Duty A BOO Switching capacity BOO BOO Single-phase BOO BOO 200 VAC BOO BOO Throe-phase BOO BOO ABOO BOO				2 x (1,5 - 6)
Terminal screw Max 1.8 Tothic safety parameters: Notes 1 8 10 y values as per EN ISO 13849-1, table CI Rating data for approved types Contacts 1 90 y App. Reted durinterrupted current max. App. Main conducting paths 1 90 y App. General Use Ju A 20 Pilot Duty A 10 A 10 Waximum motor rating B B 20 20 Solid-phase B B 20 20 10 AQ B 1 A 10 Abusinum motor rating B B 2 A 20 2 10 AQ B 1 1 2 <th< td=""><td>Flexible with ferrules to DIN 46228</td><td></td><td>mm^2</td><td></td></th<>	Flexible with ferrules to DIN 46228		mm^2	
Title training to rque for terminal screw Nome 15 bits year use as per EN ISO 13849-1, table CI Restating data for approved types Second tracks Second	Terminal screw			
Tochnical safety parameters: Motes Blaqualues as per EN ISO 13849-1, table C1 Rating data for approved types Values as per EN ISO 13849-1, table C1 Rated operational voltage Values as per EN ISO 13849-1, table C1 Rated operational voltage Values as per EN ISO 13849-1, table C1 Rated uninterrupted current max. Colspan="3">Co			Nm	
Notes 10g values as per EN ISO 13849-1, table C1 Rating data for approved types Contacts Vac Note Rated operational voltage Vac 600 Rated uninterrupted current max. Vac 600 Main conducting paths A 20 General use Incompany A 10 Auxiliary contacts Incompany A500 A500 Pilot Duty A500 A500 A500 Switching capacity Incompany Incompany Incompany Incompany Maximum motor rating Incompany			IVIII	1.0
Rated operational voltage				B10 _d values as per EN ISO 13849-1, table C1
Contacts Ue VAC 600 Rated uninterrupted current max. ————————————————————————————————————	Rating data for approved types			
Rated uninterrupted current max. A 20 General use A 20 Auxiliary contacts Iu A 10 General Use Iu A 600 P600 Switching capacity A 600 P600 P600 Switching capacity HP 1 Maximum motor rating HP 1 Single-phase HP 1 120 V AC HP 3 240 V AC HP 3 Three-phase HP 3 200 V AC HP 5 480 V AC HP 10 800 V AC HP 15 Short Circuit Current Rating SCCR Basic Rating kA 5 max. Fuse A 110 High fault rating A 50, Class J				
Main conducting paths A 20 Auxiliary contacts Beneral Use Iu A 10 Pilot Duty A 6000 per 800 P800 Switching capacity P800 P800 Maximum motor rating Single-phase P800 120 V AC HP 1 200 V AC HP 2 240 V AC HP 3 Three-phase HP 3 200 V AC HP 3 480 V AC HP 5 480 V AC HP 10 600 V AC HP 15 Short Circuit Current Rating SCCR Basic Rating kA 5 max. Fuse A 110 High fault rating kA 10 max. Fuse A 50, Class J	Rated operational voltage	U _e	V AC	600
Main conducting paths A 20 Auxiliary contacts Beneral Use Iu A 10 Pilot Duty A 6000 per 800 P800 Switching capacity P800 P800 Maximum motor rating Single-phase P800 120 V AC HP 1 200 V AC HP 2 240 V AC HP 3 Three-phase HP 3 200 V AC HP 3 480 V AC HP 5 480 V AC HP 10 600 V AC HP 15 Short Circuit Current Rating SCCR Basic Rating kA 5 max. Fuse A 110 High fault rating kA 10 max. Fuse A 50, Class J	Rated uninterrupted current max.			
A 20 Auxiliary contacts				
Auxiliary contacts Iu			Α	20
Filed Duty Fil				
Pilot Duty A 600 P600 Switching capacity ————————————————————————————————————	Auxiliary contacts			
Switching capacity P 600 Maximum motor rating P 600 Single-phase P 600 120 V AC HP 200 V AC HP 240 V AC HP Three-phase P 7 200 V AC HP 480 V AC HP 480 V AC HP 600 V AC HP 5 Cort Circuit Current Rating SCCR Basic Rating KA max. Fuse A High fault rating KA max. Fuse A 50, Class J		lu	A	10
Maximum motor rating HP 1 Single-phase HP 1 200 V AC HP 2 240 V AC HP 3 Three-phase HP 3 200 V AC HP 5 480 V AC HP 10 600 V AC HP 15 Short Circuit Current Rating SCCR Basic Rating KA 5 max. Fuse A 110 High fault rating KA 10 max. Fuse A 50, Class J	General Use	l _U	A	
Single-phase HP 1 120 V AC HP 2 240 V AC HP 3 Three-phase Three-phase 200 V AC HP 3 480 V AC HP 5 480 V AC HP 10 600 V AC HP 15 Short Circuit Current Rating SCCR Basic Rating KA 5 max. Fuse A 110 High fault rating KA 10 max. Fuse A 50, Class J	General Use	l _U	А	A 600
120 V AC HP 1 200 V AC HP 2 240 V AC HP 3 Three-phase HP 3 200 V AC HP 5 480 V AC HP 10 600 V AC HP 15 Short Circuit Current Rating SCCR Basic Rating KA 5 max. Fuse A 110 High fault rating KA 10 max. Fuse A 50, Class J	General Use Pilot Duty	l _U	A	A 600
HP 2 240 V AC	General Use Pilot Duty Switching capacity	lu	A	A 600
240 V AC HP 3 Three-phase HP 3 200 V AC HP 3 480 V AC HP 10 600 V AC HP 15 Short Circuit Current Rating SCCR Basic Rating kA 5 max. Fuse A 110 High fault rating kA 10 max. Fuse A 50, Class J	General Use Pilot Duty Switching capacity Maximum motor rating	lu	A	A 600
Three-phase 200 V AC HP 3 240 V AC HP 5 480 V AC HP 10 600 V AC HP 15 Short Circuit Current Rating SCCR Basic Rating kA 5 max. Fuse A 110 High fault rating kA 10 max. Fuse A 50, Class J	General Use Pilot Duty Switching capacity Maximum motor rating Single-phase	lu		A 600 P 600
Three-phase HP 3 240 V AC HP 5 480 V AC HP 10 600 V AC HP 15 Short Circuit Current Rating SCCR Basic Rating kA 5 max. Fuse A 110 High fault rating kA 10 max. Fuse A 50, Class J	General Use Pilot Duty Switching capacity Maximum motor rating Single-phase 120 V AC	lu	НР	A 600 P 600
200 V AC HP 3 240 V AC HP 5 480 V AC HP 10 600 V AC HP 15 Short Circuit Current Rating SCCR Basic Rating kA 5 max. Fuse A 110 High fault rating kA 10 max. Fuse A 50, Class J	General Use Pilot Duty Switching capacity Maximum motor rating Single-phase 120 V AC 200 V AC	lu	HP HP	A 600 P 600
240 V AC HP 5 480 V AC HP 10 600 V AC HP 15 Short Circuit Current Rating SCCR Basic Rating kA 5 max. Fuse A 110 High fault rating kA 10 max. Fuse A 50, Class J	General Use Pilot Duty Switching capacity Maximum motor rating Single-phase 120 V AC 200 V AC 240 V AC	lu	HP HP	A 600 P 600
480 V AC HP 10 600 V AC HP 15 Short Circuit Current Rating SCCR Basic Rating kA 5 max. Fuse A 110 High fault rating kA 10 max. Fuse A 50, Class J	General Use Pilot Duty Switching capacity Maximum motor rating Single-phase 120 V AC 200 V AC 240 V AC Three-phase	lu	HP HP	A 600 P 600
600 V AC HP 15 Short Circuit Current Rating SCCR Basic Rating kA 5 max. Fuse A 110 High fault rating kA 10 max. Fuse A 50, Class J	General Use Pilot Duty Switching capacity Maximum motor rating Single-phase 120 V AC 200 V AC 240 V AC Three-phase 200 V AC	lu	HP HP HP	A 600 P 600
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Basic RatingkA5max. FuseA110High fault ratingkA10max. FuseA50, Class J	General Use Pilot Duty Switching capacity Maximum motor rating Single-phase 120 V AC 200 V AC 240 V AC Three-phase 200 V AC 240 V AC 480 V AC	lu	HP HP HP HP	A 600 P 600 1 2 3 3 5 5 10
max. Fuse A 110 High fault rating kA 10 max. Fuse A 50, Class J	General Use Pilot Duty Switching capacity Maximum motor rating Single-phase 120 V AC 200 V AC 240 V AC Three-phase 200 V AC 240 V AC 480 V AC 480 V AC	lu	HP HP HP HP	A 600 P 600 1 2 3 3 5 5 10
High fault rating kA 10 max. Fuse A 50, Class J	General Use Pilot Duty Switching capacity Maximum motor rating Single-phase 120 V AC 200 V AC 240 V AC Three-phase 200 V AC 240 V AC 500 V AC	lu	HP HP HP HP SCCR	A 600 P 600 1 2 3 5 10 15
max. Fuse A 50, Class J	General Use Pilot Duty Switching capacity Maximum motor rating Single-phase 120 V AC 200 V AC 240 V AC Three-phase 200 V AC 240 V AC Short Circuit Current Rating Basic Rating	lu	HP HP HP HP HP KR	A 600 P 600 1 2 3 5 10 15 5
	General Use Pilot Duty Switching capacity Maximum motor rating Single-phase 120 V AC 200 V AC 240 V AC Three-phase 200 V AC 240 V AC Short Circuit Current Rating Basic Rating max. Fuse	lu	HP HP HP HP HP KCCR KA A	A 6000 P 6000 1 2 3 5 10 110
	General Use Pilot Duty Switching capacity Maximum motor rating Single-phase 120 V AC 200 V AC 240 V AC Three-phase 200 V AC 240 V AC Short Circuit Current Rating Basic Rating max. Fuse High fault rating	lu	HP HP HP HP KCCR KA A KA	A 6000 P 6000 1 2 3 5 10 15 5 110 110 110
Torrinnar dapatory	General Use Pilot Duty Switching capacity Maximum motor rating Single-phase 120 V AC 200 V AC 240 V AC Three-phase 200 V AC 240 V AC Short Circuit Current Rating Basic Rating max. Fuse High fault rating max. Fuse	lu	HP HP HP HP KCCR KA A KA	A 6000 P 6000 1 2 3 5 10 15 5 110 110 110

Solid or flexible conductor with ferrule	AWG	14 - 8
Terminal screw		M4
Tightening torque	lb-in	14.1

Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	25
Heat dissipation per pole, current-dependent	P _{vid}	W	1.1
Equipment heat dissipation, current-dependent	P _{vid}	W	0
Static heat dissipation, non-current-dependent	P _{vs}	W	0
Heat dissipation capacity	P _{diss}	W	0
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	50
IEC/EN 61439 design verification			
10.2 Strength of materials and parts			
10.2.2 Corrosion resistance			Meets the product standard's requirements.
10.2.3.1 Verification of thermal stability of enclosures			Meets the product standard's requirements.
10.2.3.2 Verification of resistance of insulating materials to normal heat			Meets the product standard's requirements.
10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects			Meets the product standard's requirements.
10.2.4 Resistance to ultra-violet (UV) radiation			UV resistance only in connection with protective shield.
10.2.5 Lifting			Does not apply, since the entire switchgear needs to be evaluated.
10.2.6 Mechanical impact			Does not apply, since the entire switchgear needs to be evaluated.
10.2.7 Inscriptions			Meets the product standard's requirements.
10.3 Degree of protection of ASSEMBLIES			Does not apply, since the entire switchgear needs to be evaluated.
10.4 Clearances and creepage distances			Meets the product standard's requirements.
10.5 Protection against electric shock			Does not apply, since the entire switchgear needs to be evaluated.
10.6 Incorporation of switching devices and components			Does not apply, since the entire switchgear needs to be evaluated.
10.7 Internal electrical circuits and connections			Is the panel builder's responsibility.
10.8 Connections for external conductors			Is the panel builder's responsibility.
10.9 Insulation properties			
10.9.2 Power-frequency electric strength			Is the panel builder's responsibility.
10.9.3 Impulse withstand voltage			Is the panel builder's responsibility.
10.9.4 Testing of enclosures made of insulating material			Is the panel builder's responsibility.
10.10 Temperature rise			The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
10.11 Short-circuit rating			Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.12 Electromagnetic compatibility			Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.13 Mechanical function			The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

Technical data ETIM 7.0

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

Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Switch disconnector (ecl@ss10.0.1-27-37-14-03 [AKF060013])

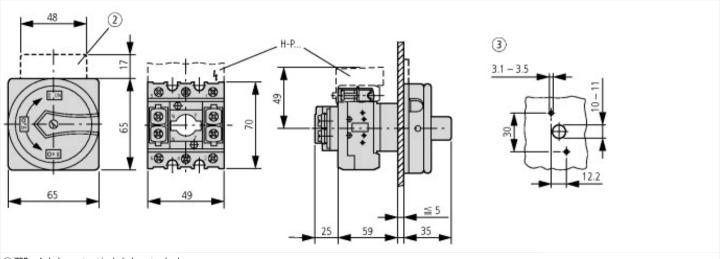
[AKI 0000 TS])		
Version as main switch		Yes
Version as maintenance-/service switch		Yes
Version as safety switch		No
Version as emergency stop installation		Yes
Version as reversing switch		No
Number of switches		1
Max. rated operation voltage Ue AC	V	690
Rated operating voltage	V	690 - 690
Rated permanent current lu	А	25
Rated permanent current at AC-23, 400 V	А	25

Rated permanent current at AC-21, 400 V	Α	25
Rated operation power at AC-3, 400 V	kW	7.5
Rated short-time withstand current lcw	kA	0.64
Rated operation power at AC-23, 400 V	kW	13
Switching power at 400 V	kW	13
Conditioned rated short-circuit current Iq	kA	80
Number of poles		3
Number of auxiliary contacts as normally closed contact		2
Number of auxiliary contacts as normally open contact		2
Number of auxiliary contacts as change-over contact		0
Motor drive optional		No
Motor drive integrated		No
Voltage release optional		No
Device construction		Built-in device fixed built-in technique
Suitable for ground mounting		No
Suitable for front mounting 4-hole		Yes
Suitable for front mounting centre		No
Suitable for distribution board installation		No
Suitable for intermediate mounting		No
Colour control element		Red
Type of control element		Door coupling rotary drive
Interlockable		Yes
Type of electrical connection of main circuit		Screw connection
Degree of protection (IP), front side		IP65
Degree of protection (NEMA)		12

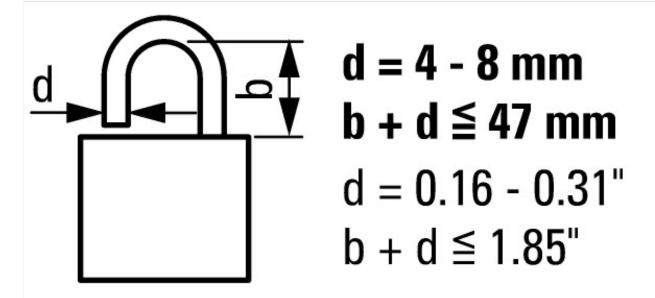
Approvals

UL 60947-4-1;CSA - C22.2 No. 60947-4-1-14; CSA-C22.2 No. 94; 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 1, 12

Dimensions



- ② ZFS-... Label mount not included as standard ③ Drilling dimensions door



≦3 padlocks

Assets (links)

Declaration of CE Conformity

00003102

Instruction Leaflets

IL03802003Z2018_04

Additional product information (links)

IL03802003Z (AWA1150-1890) Switch-disconne	ectors for flush mounting
IL03802003Z (AWA1150-1890) Switch- disconnectors for flush mounting	ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03802003Z2018_04.pdf
Technical overview cam switch, switch-disconnector	http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&startpage=4.2
System overview cam switch T	http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&startpage=4.4
System overview switch-disconnector P	http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&startpage=4.6
Key to part numbers Cam switch	http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&startpage=4.8
Key to part numbers Switch-disconnector	http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&startpage=4.8
Switches for ATEX	http://www.coopercrouse-hinds.eu/en/products/25-ex-safety-and-main-current-switches.html
Ordering form for SOND switches and SOND front plates(DE_EN)	ftp://ftp.moeller.net/DOCUMENTATION/PDF/MZ008005ZU_Orderform_Customized_Switch.pdf
Ordering form for SOND switches and SOND front plates(DE_EN)	ftp://ftp.moeller.net/D0CUMENTATION/PDF/MZ008006ZU_Orderform_Customized_Switch.pdf