Main switch, P3, 63 A, rear mounting, 3 pole, 1 N/O, 1 N/C, STOP function, With black rotary handle and locking ring, Lockable in the 0 (Off) position



Part no. P3-63/V/SVB-SW/HI11 Catalog No. 027010

110	INCEN	mro.	TEOM
UH	livery	THE COL	и аш
	,	P . O	

Product range			Main switch maintenance switch
Part group reference			P3
Stop Function			STOP function
			With black rotary handle and locking ring
Information about equipment supplied			Auxiliary contact or neutral conductor fitted by user.
Number of poles			3 pole
Auxiliary contacts			
· ·		N/0	1
7		N/C	1
Locking facility			Lockable in the 0 (Off) position
Degree of Protection			Front IP65
Design			rear mounting
Motor rating AC-23A, 50 - 60 Hz			
400 V	P	kW	30
Rated uninterrupted current	I _u	Α	63
Note on rated uninterrupted current !u			Rated uninterrupted current $\mathbf{I}_{\mathbf{U}}$ is specified for max. cross-section.

Technical data

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
Contacts			

Contacts			
Mechanical variables			
Number of poles			3 pole
Auxiliary contacts			
		N/0	1
		N/C	1
Electrical characteristics			
Rated operational voltage	U _e	V AC	690
Rated uninterrupted current	I _u	Α	63
Note on rated uninterrupted current !u			Rated uninterrupted current $\mathbf{I}_{\mathbf{U}}$ is specified for max. cross-section.
Load rating with intermittent operation, class 12			
AB 25 % DF		x I _e	2
AB 40 % DF		x I _e	1.6

AB 60 % DF		x l _e	1.3
		x ie	1.0
Short-circuit rating		A =: C/=:1	
Fuse		A gG/gL	
Rated short-time withstand current (1 s current)	I _{cw}	A _{rms}	1260
Note on rated short-time withstand current lcw			Current for a time of 1 second
Rated conditional short-circuit current	Iq	kA	4 (Load side) 100 (Supply side)
Switching capacity			
cos φ rated making capacity as per IEC 60947-3		Α	800
Rated breaking capacity $\cos \phi$ to IEC 60947-3		Α	
230 V		Α	640
400/415 V		Α	600
500 V		Α	590
690 V		Α	340
Safe isolation to EN 61140			
between the contacts		V AC	440
Current heat loss per contact at I _e		W	4.5
Current heat loss per auxiliary circuit at $I_{\rm e}$ (AC-15/230 V)		CO	0.2
Lifespan, mechanical	Operations	x 10 ⁶	> 0.1
Maximum operating frequency	Operations/h		1200
AC			
AC-3			
Rating, motor load switch	Р	kW	
220 V 230 V	Р	kW	15
400 V 415 V	Р	kW	30
500 V	Р	kW	30
690 V	Р	kW	30
Rated operational current motor load switch			
230 V	I _e	Α	51
400V 415 V	I _e	A	55
500 V	I _e	A	44
690 V	I _e	A	22.1
AC-23A	·e	^	
Motor rating AC-23A, 50 - 60 Hz	P	kW	
230 V	P	kW	18.5
400 V 415 V	P	kW	30
500 V	P	kW	45
690 V	P	kW	55
Rated operational current motor load switch		KVV	33
230 V	I _e	A	63
400 V 415 V			
	l _e	A	63
500 V	l _e	A	63
690 V	l _e	Α	63
DC			
DC-1, Load-break switches L/R = 1 ms			
Rated operational current	l _e	Α	63
Voltage per contact pair in series		V	60
DC-23A, motor load switch L/R = 15 ms			
24 V			
Rated operational current	l _e	Α	50
Contacts		Quantity	1
48 V			
Rated operational current	l _e	Α	50
Contacts		Quantity	2

60 V			
Rated operational current	l _e	Α	50
Contacts		Quantity	2
120 V			
Rated operational current	l _e	Α	25
Contacts		Quantity	3
Control circuit reliability at 24 V DC, 10 mA	Fault probability	H _F	< 10 ⁻⁵ ,< 1 failure in 100,000 switching operations
Terminal capacities	producting		
Solid or stranded		mm ²	1 x (2,5 - 35) 2 x (2,5 - 10)
Flexible with ferrules to DIN 46228		mm ²	1 x (1.5 - 25) 2 x (1.5 - 6)
Terminal screw			M5
Tightening torque for terminal screw		Nm	3
Technical safety parameters:			
Notes			B10 _d values as per EN ISO 13849-1, table C1
Rating data for approved types			
Contacts			
Rated operational voltage	U _e	V AC	600
Rated uninterrupted current max.			
Main conducting paths			
General use		Α	60
Auxiliary contacts			
General Use	I _U	Α	10
Pilot Duty			A 600 P 600
Switching capacity			
Maximum motor rating			
Single-phase			
120 V AC		HP	3
200 V AC		HP	7.5
240 V AC		HP	10
Three-phase			
200 V AC		HP	15
240 V AC		HP	15
480 V AC		НР	40
600 V AC		НР	50
Short Circuit Current Rating		SCCR	
Basic Rating		kA	10
max. Fuse		Α	150
Terminal capacity			
Solid or flexible conductor with ferrule		AWG	14 - 2
Terminal screw			M5

Design verification as per IEC/EN 61439

Tightening torque

Technical data for design verification Rated operational current for specified heat dissipation Heat dissipation per pole, current-dependent Equipment heat dissipation, current-dependent Pvid W 0 Static heat dissipation, non-current-dependent Pvs W 0 Heat dissipation capacity Pdiss W 0 Operating ambient temperature min. °C -25 Operating ambient temperature max.		2 00.g., 10041040 por 120,211 01.00		
Heat dissipation per pole, current-dependent Equipment heat dissipation, current-dependent Pvid W 0 Static heat dissipation, non-current-dependent Pvs W 0 Heat dissipation capacity Operating ambient temperature min. Operating ambient temperature max. CC 50 IEC/EN 61439 design verification	hnical data for design verification			
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 EC/EN 61439 design verification	Rated operational current for specified heat dissipation	In	Α	63
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 EC/EN 61439 design verification	Heat dissipation per pole, current-dependent	P_{vid}	W	4.5
Heat dissipation capacity Operating ambient temperature min. Operating ambient temperature max. C -25 Operating ambient temperature max. C 50 EC/EN 61439 design verification	Equipment heat dissipation, current-dependent	P _{vid}	W	0
Operating ambient temperature min. Operating ambient temperature max. °C -25 Operating ambient temperature max. °C 50 EC/EN 61439 design verification	Static heat dissipation, non-current-dependent	P_{vs}	W	0
Operating ambient temperature max. °C 50 EC/EN 61439 design verification	Heat dissipation capacity	P _{diss}	W	0
EC/EN 61439 design verification	Operating ambient temperature min.		°C	-25
	Operating ambient temperature max.		°C	50
	/EN 61439 design verification			
10.2 Strength of materials and parts	10.2 Strength of materials and parts			

lb-in

26.5

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 8.0

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])

2			
Version as main switch		Yes	
Version as maintenance-/service switch		Yes	
Version as safety switch		No	
Version as emergency stop installation		No	
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	A 63	
Rated permanent current at AC-23, 400 V	Α	A 63	
Rated permanent current at AC-21, 400 V	А	A 63	
Rated operation power at AC-3, 400 V	kV	W 30	
Rated short-time withstand current lcw	k.A	xA 1.26	
Rated operation power at AC-23, 400 V	k\	W 30	
Switching power at 400 V	kV	W 30	
Conditioned rated short-circuit current Iq	k.A	xA 100	
Number of poles		3	
Number of auxiliary contacts as normally closed contact		1	
Number of auxiliary contacts as normally open contact		1	
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 floor mounting		Yes	
Suitable for front mounting 4-hole		No	

Suitable for front mounting centre	No
Suitable for distribution board installation	No
Suitable for intermediate mounting	No
Colour control element	Black
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)	1