DATASHEET - P3-63/IVS



On-Off switch, 3 pole, 63 A, Lockable in the 0 (Off) position, service distribution board mounting $\,$





Part no. P3-63/IVS Catalog No. 041099

EL-Nummer (Norway) 0001456121

Similar to illustration

Delivery program			
Product range			On-Off switch
Part group reference			P3
			with black thumb grip and front plate
Information about equipment supplied			Auxiliary contact or neutral conductor fitted by user.
Number of poles			3 pole
Auxiliary contacts			
		N/0	0
7		N/C	0
Locking facility			Lockable in the 0 (Off) position
Degree of Protection			Front IP30
Design			service distribution board mounting
Contact cogulance			
Contact sequence			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Front plate no.			O OFF
			FS 908
Motor rating AC-23A, 50 - 60 Hz			
400 V	Р	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

delleral		
Standards		IEC/EN 60947, VDE 0660, IEC/EN 60204, CSA, UL Switch-disconnector according to IEC/EN 60947-3
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			111/3
Rated impulse withstand voltage	U_{imp}	V AC	6000
Mechanical shock resistance		g	15
Mounting position			As required
Contacts			
Mechanical variables			
Number of poles			3 pole
Auxiliary contacts			
		N/0	0
		N/C	0
Electrical characteristics			
Rated operational voltage	U _e	V AC	690
Rated uninterrupted current	Iu	Α	63
Note on rated uninterrupted current !u			Rated uninterrupted current I _u is specified for max. cross-section.
Load rating with intermittent operation, class 12			
AB 25 % DF		x l _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	80
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
Switching capacity			
$\cos \phi$ rated making capacity as per IEC 60947-3		Α	800
Rated breaking capacity cos φ 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 l _e		W	4.5
Lifespan, mechanical	Operations	x 10 ⁶	> 0.1
Maximum operating frequency	Operations/h	X 10	1200
AC	Operations/ii		1200
AC-3	D	1.707	
Rating, motor load switch	P	kW	
220 V 230 V	P	kW	15
400 V 415 V	P	kW	30
500 V	P	kW	30
690 V	Р	kW	30
Rated operational current motor load switch			
230 V	le	Α	51
400V 415 V	l _e	Α	55
500 V	I _e	Α	44
690 V	I _e	Α	22.1
AC-21A			
Rated operational current switch			
440 V	I _e	Α	63
AC-23A			
Motor rating AC-23A, 50 - 60 Hz	P	kW	
230 V	P	kW	18.5
250 V	1	K V V	10.0

400 V 415 V	Р	kW	30
500 V	P	kW	45
690 V	Р	kW	55
Rated operational current motor load switch			
230 V	I _e	Α	63
400 V 415 V	I _e	Α	63
500 V	I _e	Α	63
690 V	I _e	Α	63
DC			
DC-1, Load-break switches L/R = 1 ms			
Rated operational current	I _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		50
Contacts		Quantity	1
48 V			
Rated operational current	l _e		50
Contacts		Quantity	2
60 V			
Rated operational current	l _e		50
Contacts		Quantity	2
120 V		Α	25
Rated operational current Contacts	l _e		
Control circuit reliability at 24 V DC, 10 mA	Fault	Quantity H _F	
CONTROL CITCUIT TEHRABILITY AT 24 V DC, 10 HIA	probability	пĘ	< 10 ⁻⁵ , < 1 fault in 100000 operations
Terminal capacities			
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 Technical safety parameters:		Nm	3
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	lu	Α	10
Pilot Duty			A 600 P 600
Switching capacity			
Maximum motor rating			
Single-phase			
120 V AC		НР	3
200 V AC		НР	7.5
240 V AC		НР	10
Three-phase			
200 V AC			15
240 V AC		HP	15
480 V AC		HP	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
Tightening torque	lb-in	26.5

Design verification as per IEC/EN 61439

In	Α	63
P _{vid}	W	4.5
P _{vid}	W	0
P _{vs}	W	0
P _{diss}	W	0
	°C	-25
	°C	50
		Meets the product standard's requirements.
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		Does not apply, since the entire switchgear needs to be evaluated.
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		Is the panel builder's responsibility.
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		The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
		Is the panel builder's responsibility. The specifications for the switch gear must be observed. $\label{eq:constraint}$
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		The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.
	P _{vid} P _{vid} P _{vs}	P _{vid} W P _{vid} W P _{vs} W P _{diss} W °C

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])

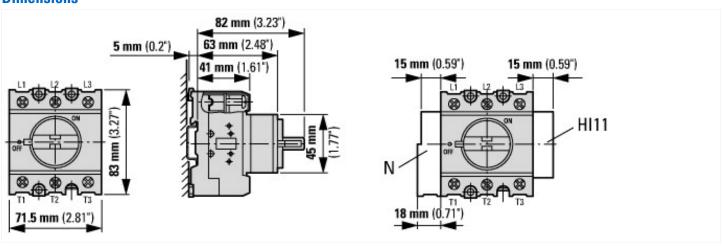
[AKF000013])	
Version as main switch	No
Version as maintenance-/service switch	No
Version as safety switch	No
Version as emergency stop installation	No
Version as reversing switch	No
Number of switches	1

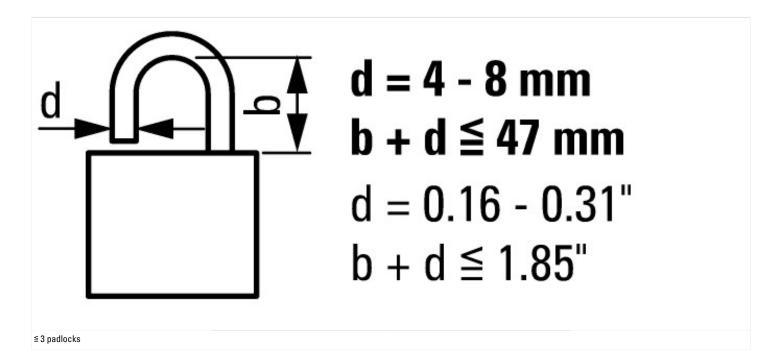
Max. rated operation voltage Ue AC	V	690
Rated operating voltage	V	690 - 690
Rated permanent current lu	Α	63
Rated permanent current at AC-23, 400 V	Α	63
Rated permanent current at AC-21, 400 V	Α	63
Rated operation power at AC-3, 400 V	kW	30
Rated short-time withstand current lcw	kA	1.26
Rated operation power at AC-23, 400 V	kW	30
Switching power at 400 V	kW	30
Conditioned rated short-circuit current Iq	kA	4
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		Built-in device fixed built-in technique
Suitable for ground mounting		Yes
Suitable for front mounting 4-hole		No
Suitable for front mounting centre		No
Suitable for distribution board installation		Yes
Suitable for intermediate mounting		No
Colour control element		Black
Type of control element		Toggle
Interlockable		No
Type of electrical connection of main circuit		Screw connection
Degree of protection (IP), front side		IP30
Degree of protection (NEMA)		12

Approvals

marking UL File No. E36332 UL Category Control No. NLRV CSA File No. 12528 CSA Class No. 3211-05 North America Certification UL listed, CSA certified Suitable for Branch circuits, suitable as motor disconnect	• •	
UL Category Control No. CSA File No. 12528 CSA Class No. 3211-05 North America Certification UL listed, CSA certified Suitable for Branch circuits, suitable as motor disconnect	Product Standards	
CSA File No. 12528 CSA Class No. 3211-05 North America Certification UL listed, CSA certified Suitable for Branch circuits, suitable as motor disconnect	UL File No.	E36332
CSA Class No. 3211-05 North America Certification UL listed, CSA certified Suitable for Branch circuits, suitable as motor disconnect	UL Category Control No.	NLRV
North America Certification UL listed, CSA certified Suitable for Branch circuits, suitable as motor disconnect	CSA File No.	12528
Suitable for Branch circuits, suitable as motor disconnect	CSA Class No.	3211-05
	North America Certification	UL listed, CSA certified
Person of Protection	Suitable for	Branch circuits, suitable as motor disconnect
Degree of Protection IEC: 1703, 01/05A Type 1, 12	Degree of Protection	IEC: IP65; UL/CSA Type 1, 12

Dimensions





Assets (links)

Declaration of CE Conformity

00003104

Instruction Leaflets

IL03802005Z2018_05

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