Switch-disconnector, 3 p, 400A, frame size 3

Powering Business Worldwide™

Part no. LN3-400-I Catalog No. 112008

Similar to illustration

Delivery program			
Product range			Switch-disconnectors
Protective function			Disconnectors/main switches
Standard/Approval			IEC
Installation type			Fixed
Construction size			LN3
Description			Main switch characteristics including positive drive to IEC/EN 60204 and VDE 0113.
Description			Isolating characteristics to IEC/EN 60947-3 and VDE 0660. Busbar tag shroud to VDE 0160 Part 100.
Number of poles			3 pole
Standard equipment			Screw connection
Switch positions			l, +, 0
Rated current = rated uninterrupted current	$I_n = I_u$	Α	400
Short-circuit protection max. fuse gL-characteristic		A gL	630
Technical data			
Switch-disconnectors			
Rated surge voltage invariability	U_{imp}		
Main contacts		٧	8000
Auxiliary contacts		٧	6000
Rated operational voltage	Ue	V AC	690
Rated operating frequency	f	Hz	50/60
Rated current = rated uninterrupted current	$I_n = I_u$	Α	400
Overvoltage category/pollution degree			III/3
Rated insulation voltage	Ui	V	1000
Use in unearthed supply systems	91	V	≤ 690
Rated short-circuit making capacity		V	= 050
690 V 50/60 H	Ic	kA	25
Rated short-time withstand current			
t = 0.3 s	I _{cw}	kA	12
t = 1 s	I _{cw}	kA	12
Rated conditional short-circuit current	0.11		
With back-up fuse		A gG/gL	PN3(N3)-400630: 630
400 415 V		kA	100
690 V		kA	80
With downstream fuse			PN3(N3)-400630: 630
400 415 V		kA	100
690 V		kA	80
Rated making and breaking capacity			
Rated operational current	le	Α	
415 V	I _e	Α	630
690 V	I _e	Α	630
415 V		A	630
	l _e		
690 V	l _e	Α	630
Lifespan, mechanical	Operations		15000
Max. operating frequency		Ops/h	60

Lifespan, electrical

Lifespan, electrical			
400 V 50/60 Hz	Operations		5000
415 V 50/60 Hz	Operations		5000
690 V 50/60 Hz	Operations		3000
400 V 50/60 Hz	Operations		3000
415 V 50/60 Hz	Operations		3000
690 V 50/60 Hz	Operations		2000
Total break time at short-circuit		ms	< 10
Terminal capacity			
Standard equipment			Screw connection
Round copper conductor			
Box terminal			
Solid		mm ²	2 x 16
Stranded		mm ²	1 x (35 - 240) 2 x (25 - 120)
Tunnel terminal			
Solid		mm ²	1 x (16 - 185)
Stranded			
Stranded		2	1 x (25 - 185)
		mm ²	
Double hole		mm ²	1 x (50 - 240) 2 x (50 - 240)
Bolt terminal and rear-side connection			
Direct on the switch			
Solid		mm ²	1 x 16 2 x 16
Stranded		mm ²	1 x (25 - 240) 2 x (25 - 240)
Connection width extension		mm^2	
Connection width extension		mm^2	2 x 300
Al conductors, Cu cable			
Tunnel terminal			
Solid		mm ²	1 x 16
Stranded			
Stranded		mm ²	1 x (25 - 185)
			· · ·
Double hole		mm ²	1 x (50 - 240) 2 x (50 - 240)
Bolt terminal and rear-side connection			
Flat copper strip, with holes	min.	mm	6 x 16 x 0.8
Flat copper strip, with holes	max.	mm	10 x 32 x 1.0 + 5 x 32 x 1.0
Connection width extension		mm	(2 x) 10 x 50 x 1.0
Cu strip (number of segments x width x segment thickness)			
Box terminal			
	min.	mm	6 x 16 x 0.8
	max.	mm	10 x 24 x 1.0 + 5 x 24 x 1.0 (2 x) 8 x 24 x 1.0
Bolt terminal and rear-side connection			
Flat copper strip, with holes	min.	mm	6 x 16 x 0.8
Flat copper strip, with holes	max.	mm	10 x 32 x 1.0 + 5 x 32 x 1.0
Connection width extension		mm	(2 x) 10 x 50 x 1.0
Copper busbar (width x thickness)	mm		,,
Bolt terminal and rear-side connection			
Screw connection			M10
			IVITO
Direct on the switch	min	m	20 v.E
	min.	mm	20 x 5
	max.	mm	30 x 10 + 30 x 5
Connection width extension		mm	

Connection width extension	max.	mm	2 x (10 x 50)
Control cables			
		mm ²	1 x (0.75 - 2.5) 2 x (0.75 - 1.5)

Design verification as per IEC/EN 61439

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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 switchgear must be observed.
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		The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

Technical data ETIM 6.0

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@ss8.1-27-37-14-03 [AKF060010])

[AKF060010])			
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
Max. rated operation voltage Ue AC	V		400
Rated operating voltage	V		690 - 690
Rated permanent current lu	Α		400
Rated permanent current at AC-21, 400 V	Α		0
Rated operation power at AC-3, 400 V	kV	W	0
Rated short-time withstand current lcw	k.A	A	12
Rated operation power at AC-23, 400 V	kV	W	200
Switching power at 400 V	kV	W	0
Conditioned rated short-circuit current Iq	k.A	A	100
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	Yes
Motor drive integrated	No
Voltage release optional	Yes
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 center	No
Suitable for distribution board installation	Yes
Suitable for intermediate mounting	Yes
Colour control element	Grey
Type of control element	Rocker lever
Interlockable	Yes
Type of electrical connection of main circuit	Screw connection
Degree of protection (IP), front side	IP20