DATASHEET - LN1-160-I

Switch-disconnector, 3 p, 160A, frame size 1



Part no.

LN1-160-I 111997

Product name	Eaton Moeller series Power Defense molded case switch-disconnector
Part no.	LN1-160-I
EAN	4015081115457
Product Length/Depth	88 millimetre
Product height	145 millimetre
Product width	90 millimetre
Product weight	0.926 kilogram
Compliances	RoHS conform
Certifications	IEC
Product Tradename	Power Defense
Product Type	Molded case switch-disconnector
Product Sub Type	None
Application	Use in unearthed supply systems at 690 V
Туре	Switch-disconnector
Circuit breaker frame type	LN1
Number of poles	Three-pole
Amperage Rating	160 A
Features	Version as maintenance-/service switch Motor drive optional Version as emergency stop installation Version as main switch
Special features	Main switch characteristics including positive drive to IEC/EN 60204 and VDE 0113. Isolating characteristics to IEC/EN 60947-3 and VDE 0660. Busbar tag shroud to VDE 0160 Part 100. Rated current = rated uninterrupted current: 160 A
Veltage rating	690 V - 690 V
Voltage rating Rated operating voltage (Ue) at AC - max	400 V
	690 V
Rated insulation voltage (Ui)	6000 V
Rated impulse withstand voltage (Uimp) at auxiliary contacts Rated impulse withstand voltage (Uimp) at main contacts	
	6000 V 100 kA
Rated conditional short-circuit current (Iq) Rated operational current	100 kA 160 A (690 V AC-22/23A, making and breaking capacity) 160 A (415 V AC-1, making and breaking capacity) 160 A (690 V AC-1, making and breaking capacity) 160 A (415 V AC-22/23A, making and breaking capacity)
Rated permanent current at AC-21, 400 V	0 A
Rated conditional short-circuit current with back-up fuse	100 kA at 400/415 V PN1(N1)-63125: 125 AgGgL; PN1(N1)-160: 160 AgGgL 80 kA at 690 V
Rated conditional short-circuit current with downstream fuse	100 kA at 400/415 V 10 kA at 690 V PN1(N1)-63125: 125 AgGgL; PN1(N1)-160: 160 AgGgL
Rated short-time withstand current (Icw)	2 kA
Rated short-time withstand current (t = 0.3 s)	2 kA
Rated short-time withstand current (t = 1 s)	2 kA
Rated operating frequency	50 Hz
Rated short-circuit making capacity Icm at 690 V, 50/60 Hz	2.8 kA
Rated operating power at AC-3, 400 V	0 kW
Rated operating power at AC-23, 400 V	90 kW
Switching power at 400 V	0 kW
Short-circuit total breaktime	< 10 ms
Short-circuit protective device fuses - max	160 A gL

Number of operations per hour - max 12 Handle type Rocker lever Overvoltage category II Pollution degree 3 Lifespan, electrical 10000 operations at 415 V AC-1 Stood operations at 400 V AC-3 5000 operations at 400 V AC-3 Stood operations at 400 V AC-3 5000 operations at 400 V AC-3 Stood operations at 400 V AC-3 5000 operations at 400 V AC-3 Stood operations at 400 V AC-3 5000 operations at 400 V AC-3 Stood operations at 400 V AC-3 5000 operations at 400 V AC-3 Mounting Method Forund mounting Mumber of auxiliary contacts (change-over contacts) Forund mounting Number of auxiliary contacts (normally closed contacts) 6 Number of auxiliary contacts (normally closed contacts) 0 Number of auxiliary contacts (normally closed contacts) 6 Stort operations 6 6 Number of auxiliary contacts	Electrical connection type of main circuit	Frame clamp
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Special features Main structure teristic including pathed drive to 100 1000 and your of the 000 1000 and your of the 0000 1000 and your of the 0000 1000 and your of the 000 10	Handle color	Gray
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Terminal capacity (copper busbar) Max. Is mm x 5 mm direct at switch rear-side connection Terminal capacity (copper solid conductor/cable) Image:	Terminal capacity (aluminum solid conductor/cable)	16 mm² (1x) at tunnel terminal
Initial capacity (copper solid conductor/cable)Init 21 mus 7 and 7 and 7 is furm ² (1x) at box terminal (1x) at box terminal 	Terminal capacity (aluminum stranded conductor/cable)	25 mm² - 95 mm² (1x) at tunnel terminal
I is mark	Terminal capacity (copper busbar)	Min. 12 mm x 5 mm direct at switch rear-side connection
2 mm ² + 20 mm ² (1/s) at box terminal 25 mm ² (2/s) direct at switch rear-side connection 25 mm ² (2/s) direct at switch rear-switch rear	Terminal capacity (copper solid conductor/cable)	16 mm ² (1x) at tunnel terminal 6 mm ² - 16 mm ² (2x) at box terminal 6 mm ² - 16 mm ² (2x) direct at switch rear-side connection
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	10.5 Protection against electric shock	Does not apply, since the entire switchgear needs to be evaluated.
10.7 Internal electrical circuits and connections Is the panel builder's responsibility.	10.6 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.
10.9.2 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.
Functions	Disconnectors/main switches Voltage release optional Interlockable