### **DATASHEET - N1-100**



Switch-disconnector 3p 100A BG1

Part no. N1-100 Catalog No. 259144

EL-Nummer (Norway)

4358716



Powering Business Worldwide\*

Delivery program			
Product range			Switch-disconnectors
Protective function			Disconnectors/main switches
Standard/Approval			IEC
Installation type			Fixed
Construction size			N1
Description			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.
Number of poles			3 pole
Standard equipment			Box terminal
Switch positions			l, +, 0
Rated current = rated uninterrupted current	$I_n = I_u$	Α	100
Short-circuit protection max. fuse gL-characteristic		A gL	125

## Technical data

G	e	n	e	r	a	

Standards		IEC/EN 60947
Protection against direct contact		Finger and back-of-hand proof to DIN EN 50274/VDE 0106 part 110
Climatic proofing		Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
Ambient temperature		
Ambient temperature, storage	°C	- 40 - + 70
Operation	°C	-25 - +70
Mechanical shock resistance (10 ms half-sinusoidal shock) according to IEC 60068-2-27	g	20 (half-sinusoidal shock 20 ms)
Safe isolation to EN 61140		
Between auxiliary contacts and main contacts	V AC	500
between the auxiliary contacts	V AC	300
Mounting position		
Mounting position		Vertical and 90° in all directions  With residual-current release XFI: - NZM1, N1, NZM2, N2: vertical and 90° in all directions with plug-in adapter elements - NZM1, N1, NZM2, N2: vertical, 90° right/left with withdrawable unit: - NZM3, N3: vertical, 90° left - NZM4, N4: vertical with remote operator: - NZM2, N(S)2, NZM3, N(S)3, NZM4, N(S)4: vertical and 90° in all directions
Direction of incoming supply		as required
Degree of protection		
Device		In the area of the HMI devices: IP20 (basic protection type)
Enclosures		With insulating surround: IP40 With door coupling rotary handle: IP66
Terminations		Tunnel terminal: IP10 Phase isolator and band terminal: IP00
Switch-disconnectors		

#### Switch-disconnectors

Rated surge voltage invariability U<sub>imp</sub>

Main contrate		٧	2000
Main contacts			6000
Auxiliary contacts		V	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	100
Overvoltage category/pollution degree			III/3
Rated insulation voltage	Ui	V	690
Use in unearthed supply systems		V	≦ 690
Other technical data (sheet catalogue)			Weight
			Temperature dependency, Derating Effective power loss
Rated short-circuit making capacity			
690 V 50/60 H	Ic	kA	2.8
Rated short-time withstand current			
t = 0.3 s	I <sub>cw</sub>	kA	2
t = 1 s	I <sub>cw</sub>	kA	2
Rated conditional short-circuit current			
With back-up fuse		A gG/gL	gG/gL: 100
400 415 V		kA	100
690 V		kA	80
With downstream fuse		A gG/gL	gG/gL: 100
400 415 V		kA	100
690 V		kA	10
Rated making and breaking capacity			
Rated operational current	l <sub>e</sub>	Α	
AC-22/23A			
415 V	l <sub>e</sub>	Α	160
690 V	l <sub>e</sub>	Α	160
Lifespan, mechanical	Operations		20000
Max. operating frequency		Ops/h	120
Lifespan, electrical			
AC-1			
400 V 50/60 Hz	Operations		10000
415 V 50/60 Hz	Operations		10000
690 V 50/60 Hz	Operations		7500
AC-23A			
400 V 50/60 Hz	Operations		1000
415 V 50/60 Hz	Operations		1000
690 V 50/60 Hz	Operations		1000
Terminal capacity			
Standard equipment			Box terminal
Optional accessories			Screw connection Tunnel terminal connection on rear
Copper conductors and cables			
Box terminal			
Solid		mm <sup>2</sup>	1 x (10 - 16) 2 x (6 - 16)
Stranded		mm <sup>2</sup>	1 x (10 - 70) <sup>3)</sup> 2 x (6 - 25)
			$^{\rm 3)}$ Up to 95 mm² can be connected depending on the cable manufacturer.
Tunnel terminal			
Solid		mm <sup>2</sup>	1 x 16
Stranded			
1-hole		mm <sup>2</sup>	1 x (25 - 95)
Bolt terminal and rear-side connection			
Direct on the switch			
Solid		2	1 x (10 - 16)
Ooliu		mm <sup>2</sup>	1.4(10 10)

			2 x (6 - 16)
Stranded		mm <sup>2</sup>	1 x (25 - 70) <sup>3)</sup> 2 x 25
			<sup>3)</sup> Up to 95 mm² can be connected depending on the cable manufacturer.
Al conductors, Al cable			
Tunnel terminal			
Solid		$mm^2$	1 x 16
Stranded			
1-hole		$mm^2$	1 x (25 - 95)
Bolt terminal and rear-side connection			
Direct on the switch			
Solid		mm <sup>2</sup>	1 x (10 - 16) 2 x (10 - 16)
Stranded		mm <sup>2</sup>	1 x (25 - 70) <sup>3)</sup> 2 x 25
Cu strip (number of segments x width x segment thickness)			
Box terminal			
	min.	mm	2 x 9 x 0.8
	max.	mm	9 x 9 x 0.8
Copper busbar (width x thickness)	mm		
Bolt terminal and rear-side connection			
Screw connection			M6
Direct on the switch			
	min.	mm	12 x 5
	max.	mm	16 x 5

### Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	100
Equipment heat dissipation, current-dependent	P <sub>vid</sub>	W	11.4
	rvid		
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	70
EC/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			Meets the product standard's requirements.
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 lobserved.

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.

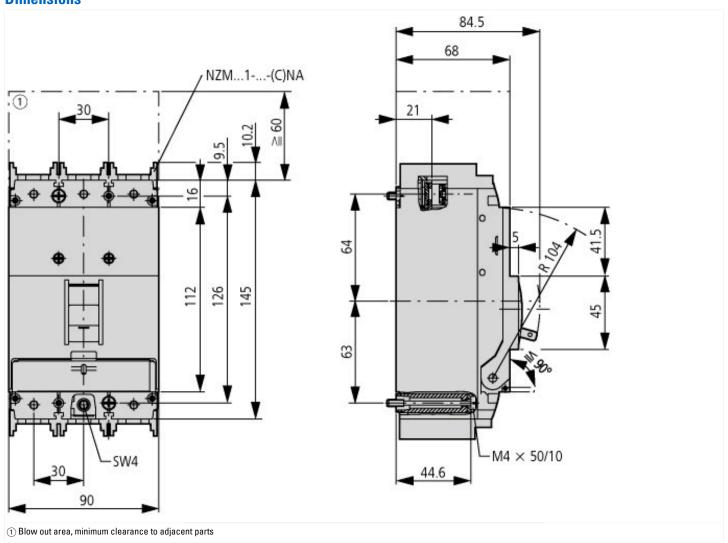
#### **Technical data ETIM 7.0**

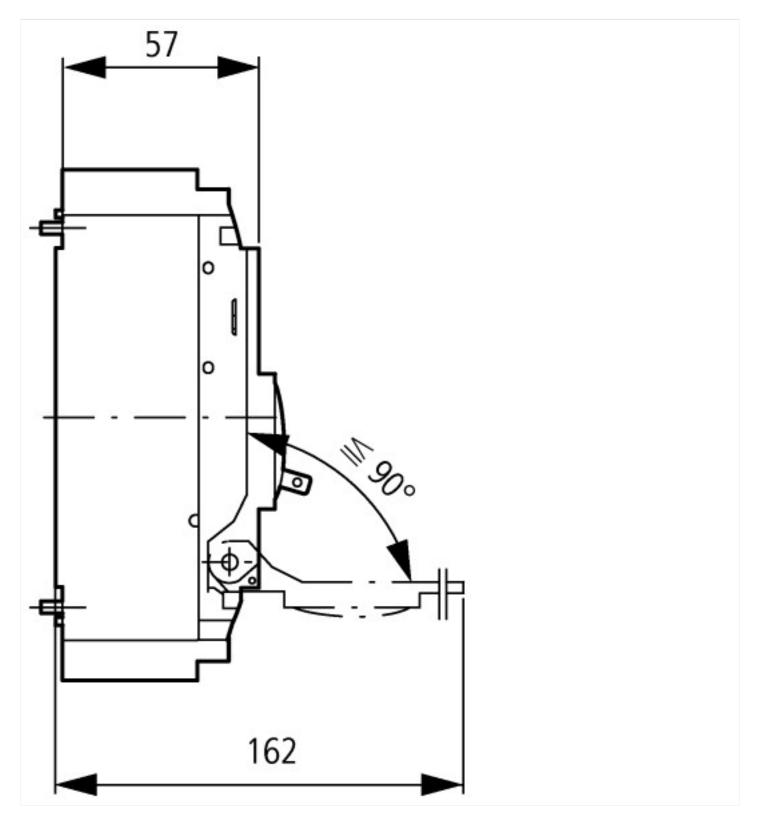
Low-voltage industrial components (EG000017) / Switch disconnector (EC000216)

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])

Version as main extended         6         76           Version as sethic switch         6         76           Version as sethic switch         6         76           Version as sethic systems         6         76           Version as sething-rely stop installation         6         76           Version as sething-rely stop installation         6         76           Number of switches         6         70           Mix. roted operation voltage Us AC         8         90           Retard permanent current at AC-23, 400 V         A         0           Retad permanent current at AC-23, 400 V         A         0           Retad operation power at AC-23, 400 V         A         2           Retad operation power at AC-23, 400 V         A         2           Retad operation power at AC-24, 400 V         A         2           Retad operation power at AC-24, 400 V         A         2           Conditioned rated short-inventional current to well as a command problem of auxiliary contacts as normally closed contact         B         0           Conditioned rated short-inventional power at AC-24, 400 V         B         0           Number of auxiliary contacts as normally closed contact         B         0           Moure of auxiliary contacts as normally closed co	[AKF060013])	377		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Version as safety switch         No           Version as emergency stop installation         Yes           Vorsion as reversing switch         No           Number of switches         1           Max. rated operation voltage Ue AC         V           Rated operation voltage Ue AC         V           Rated operation voltage Ue AC         V           Rated operation voltage Ue AC         A           Rated permanent current and AC-22, 400 V         A           Rated permanent current and AC-23, 400 V         A           Rated short-sime withstand current lew         KW           Rated short-sime withstand current lew         KW           Switching power at AC-23, 400 V         KW           Switching sower at 400 V         KW	Version as main switch			Yes
Version as omergency stop installation         Yes         No.           Version as oneversing switch         1         No.           Number of switches         Yes         36           Name on switches         Yes         36           Name of switches         Yes         36           Nate of operating voltage         Yes         36           Rated permanent current un AC-23,400 Y         Ae         0           Rated operation power at AC-3,400 Y         Wes         2           Rated operation power at AC-3,400 Y         Wes         5           Rated operation power at AC-3,400 Y         Wes         5           Rated operation power at AC-3,400 Y         Wes         5           Nameber of power at AC-3,400 Y         Wes         5           Nameber of auxiliary contacts as anomally closed contact         Wes         6           Number of auxiliary contacts as anomally closed contact         Yes         9           Number of auxiliary contacts as anomally closed contact         Yes         Yes           Number of auxiliary contacts as change-over contact         Yes         Yes           Notation of we integrated         Yes         Yes           Notation of we integrated         Yes         Yes           Notation	Version as maintenance-/service switch			Yes
Version as reversing switch         In the content of switches         In the content of switches <t< td=""><td>Version as safety switch</td><td></td><td></td><td>No</td></t<>	Version as safety switch			No
Number of switches         1         1           Max. rated operation voltage Ue AC         V         990-990           Rated operation voltage Ue AC         V         90-990           Rated permanent current at AC-23, 400 V         A         0           Rated permanent current at AC-23, 400 V         A         0           Rated operation power at AC-33, 400 V         W         0           Rated spermanent current at AC-21, 400 V         K         0           Rated operation power at AC-23, 400 V         W         0           Rated spermanent current at AC-24, 400 V         W         5           Switching power at 400 V         W         0           Conditioned rated short-circuit current lq         W         0           Number of poiss         W         0           Number of poiss         W         0           Number of auxiliary contacts as normally closed contact         W         0           Number of auxiliary contacts as change-over contact         W         0           Motor drive optional         W         0         0           Motor drive integrated         W         0         0           Voltage release optional         W         0         0           Suitable for fort mounti	Version as emergency stop installation			Yes
Max. rated operation voltage Ue AC         V         690           Rated operating voltage         V         690 - 890           Rated operating voltage         A         100           Rated permanent current at AC-23,400 V         A         0           Rated operation power at AC-3,400 V         AW         0           Rated operation power at AC-3,400 V         AW         2           Rated operation power at AC-3,400 V         AW         5           Switching power at 400 V         AW         5           Switching power at 400 V         AW         0           Number of puxiliary contacts as normally closed contact         AW         0           Number of auxiliary contacts as change-over contact         AW         0           Motor drive integrated         AW         Yes           Motor drive integrated         AW         Yes           Switable for ground mounting         AW         Yes           Suitable for ground mounting         AW         Yes	Version as reversing switch			No
Rated operating voltage         V         690-690           Rated permanent current IU         A         100           Rated permanent current at AC-23,400 V         A         0           Rated spermanent current at AC-24,400 V         A         2           Switching power at 400 V         4         2         2           Number of power at 400 V         4         2         2 <t< td=""><td>Number of switches</td><td></td><td></td><td>1</td></t<>	Number of switches			1
Rated permanent current lu         A         100           Rated permanent current at AC-23, 400 V         A         0           Rated permanent current at AC-24, 400 V         A         0           Rated permanent current at AC-24, 400 V         A         0           Rated short-time withstand current lcw         A         X           Rated short-time withstand current lcw         A         55           Switching power at AC-23, 400 V         KW         55           Switching power at 400 V         KW         0           Conditioned rated short-circuit current lq         KA         0           Number of poles         S         3           Number of auxiliary contacts as normally closed contact         C         0           Number of auxiliary contacts as normally copen contact         C         0           Number of auxiliary contacts as change-over contact         C         0           Motor drive optional         C         Ves           Motor drive integrated         C         Ves           Motor drive integrated         C         Ves           Device construction         C         Ves           Suitable for front mounting 4-tole         C         Ves           Suitable for front mounting centre	Max. rated operation voltage Ue AC		V	690
Rated permanent current at AC-23, 400 V         A         0           Rated permanent current at AC-21, 400 V         A         0           Rated operation power at AC-3, 400 V         KM         0           Rated short-line withstand current lcw         KA         2           Rated permanent at AC-21, 400 V         KM         55           Switching power at AC-23, 400 V         KM         55           Switching power at AC-23, 400 V         KM         0           Conditioned rated short-circuit current lq         KM         0           Number of poles         J         3           Number of auxiliary contacts as normally closed contact         J         0           Number of auxiliary contacts as normally open contact         Ves         Ves           Motor drive optional         Ves         Ves           Motor drive integrated         Ves         Ves           Voltage release optional         Ves         Ves           Suitable for ground mounting         Ves         No           Suitable for front mounting 4-hole         Ves         No           Suitable for front mounting centre         No         No           Suitable for intermediste mounting         Ves         No           Suitable for intermediste mounti	Rated operating voltage		V	690 - 690
Rated permanent current at AC-21,400 V Rated operation power at AC-3,400 V Rated short-time withstand current low Rated short-time withstand current low Rated short-time withstand current low Rated operation power at AC-23,400 V Rated operation power at AC-23,400 V Row to present short-circuit current low Row to present short-circuit current low Row to plos Switching power at 400 V Romber of plos Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as change-over contact Notor drive integrated Notor drive integrated Notor drive integrated Notor drive integrated Suitable for ground mounting Suitable for front mounting 4-hole Suitable for front mounting 4-hole Suitable for front mounting centre Suitable for intermediate mounting Colour control element Type of centrol element Interlockable Type of electrical connection of main circuit Type of electrical connection of main circuit Pages of protection (IP), front side  No  No  No  Rated speration No  Row Suitable for front mounting centre Suitable for intermediate mounting No  Row Suitable for intermediate mounting	Rated permanent current lu		Α	100
Rated operation power at AC-3, 400 V         kW         0           Rated short-time withstand current lcw         kA         2           Rated operation power at AC-23, 400 V         kW         55           Switching power at 400 V         kW         0           Conditioned rated short-circuit current lq         kA         0           Number of poles         A         0           Number of auxiliary contacts as normally closed contact         C         0           Number of auxiliary contacts as normally open contact         0         0           Number of auxiliary contacts as change-over contact         0         0           Motor drive optional         Yes         0           Motor drive integrated         Yes         0           Voltage release optional         Yes         0           Device construction         Yes         0           Suitable for ground mounting         Yes         0           Suitable for front mounting 4-hole         Yes         No           Suitable for front mounting centre         Yes         No           Suitable for front mounting centre         Yes         Yes           Suitable for intermediate mounting         Yes         Yes           Colour control element         Yes	Rated permanent current at AC-23, 400 V		Α	0
Rated short-time withstand current low	Rated permanent current at AC-21, 400 V		Α	0
Rated operation power at AC-23, 400 V  Switching power at 400 V  Conditioned rated short-circuit current lq  Number of poles  Number of poles  Number of auxiliary contacts as normally closed contact  Number of auxiliary contacts as normally closed contact  Number of auxiliary contacts as normally open contact  Number of auxiliary contacts as normally open contact  Number of auxiliary contacts as change-over contact  Motor drive optional  Motor drive integrated  Motor drive integrated  No  Voltage release optional  Device construction  Suitable for ground mounting  Suitable for front mounting 4-hole  Suitable for front mounting 4-hole  Suitable for front mounting entre  Suitable for intermediate mounting  Suitable for intermediate mounting  Suitable for intermediate mounting  Colour control element  Type of control element  Type of control element  Interlockable  Type of electrical connection of main circuit  Degree of protection (IP), front side	Rated operation power at AC-3, 400 V		kW	0
Switching power at 400 V Conditioned rated short-circuit current Iq Number of poles Number of poles Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as change-over contact Number of auxiliary contacts as normally open contact Number of auxiliary cont	Rated short-time withstand current lcw		kA	2
Conditioned rated short-circuit current Iq  Number of poles  Number of auxiliary contacts as normally closed contact  Number of auxiliary contacts as normally open contact  Number of auxiliary contacts as change-over contact  Number of auxiliary contacts as normally open contact  Number of auxiliary con	Rated operation power at AC-23, 400 V		kW	55
Number of poles Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as change-over contact Notor drive optional Notor drive integrated No No Voltage release optional Pevice construction Suitable for ground mounting Suitable for ground mounting Suitable for front mounting 4-hole Suitable for front mounting 4-hole Suitable for front mounting centre Suitable for distribution board installation Suitable for distribution board installation Suitable for intermediate mounting Colour control element Type of control element Interlockable Type of control element Type of electrical connection of main circuit Degree of protection (IP), front side  3  3  0  0  0  0  0  0  0  0  0  0  0	Switching power at 400 V		kW	0
Number of auxiliary contacts as normally closed contact  Number of auxiliary contacts as normally open contact  Number of auxiliary contacts as change-over contact  Number of auxiliary contacts as normally open contact  Number of auxiliary contacts as normally open contact  Number of auxiliary contacts as normally open contact  No  No  Suitage for ground mounting  Suitable for ground mounting 4-hole  Suitable for front mounting 4-hole  Suitable for front mounting centre  No  Suitable for distribution board installation  Yes  Suitable for intermediate mounting  Colour control element  Type of control element  Interlockable  Type of control element  Interlockable  Type of electrical connection of main circuit  Degree of protection (IP), front side  O  O  O  O  O  O  O  O  O  O  O  O  O	Conditioned rated short-circuit current Iq		kA	0
Number of auxiliary contacts as normally open contact  Number of auxiliary contacts as change-over contact  Number of auxiliary contacts as change-over contact  Notor drive optional  Motor drive integrated  No  Voltage release optional  Pers  Device construction  Suitable for ground mounting  Suitable for front mounting 4-hole  Suitable for front mounting centre  No  Suitable for front mounting centre  No  Suitable for distribution board installation  Suitable for intermediate mounting  Colour control element  Type of control element  Interlockable  Type of electrical connection of main circuit  Degree of protection (IP), front side  O   O  O  O  O  O  O  O  O  O  O  O	Number of poles			3
Number of auxiliary contacts as change-over contact  Motor drive optional  Motor drive integrated  No  Voltage release optional  Device construction  Suitable for ground mounting  Suitable for front mounting 4-hole  Suitable for front mounting centre  Suitable for front mounting centre  Suitable for intermediate mounting  Suitable for intermediate mounting  Colour control element  Type of control element  Interlockable  Type of electrical connection of main circuit  Degree of protection (IP), front side  No  Yes  Suitable for intermediate mounting  Rocker lever  Frame clamp  IP20	Number of auxiliary contacts as normally closed contact			0
Motor drive optional Motor drive integrated No Voltage release optional Pevice construction Suitable for ground mounting Suitable for front mounting 4-hole Suitable for front mounting centre No Suitable for front mounting centre No Suitable for intermediate mounting Suitable for front mounting centre No Suitable for front mounting	Number of auxiliary contacts as normally open contact			0
Motor drive integratedNoVoltage release optionalYesDevice constructionBuilt-in device fixed built-in techniqueSuitable for ground mountingYesSuitable for front mounting 4-holeNoSuitable for front mounting centreNoSuitable for distribution board installationYesSutable for intermediate mountingYesColour control elementBlackType of control elementRocker leverInterlockableYesType of electrical connection of main circuitFrame clampDegree of protection (IP), front sideIP20	Number of auxiliary contacts as change-over contact			0
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 centre       No         Suitable for distribution board installation       Yes         Suitable for intermediate mounting       Yes         Colour control element       Black         Type of control element       Rocker lever         Interlockable       Yes         Type of electrical connection of main circuit       Frame clamp         Degree of protection (IP), front side       IP20	Motor drive optional			Yes
Device construction  Built-in device fixed built-in technique  Yes  Suitable for ground mounting  Suitable for front mounting 4-hole  No  Suitable for front mounting centre  Suitable for distribution board installation  Yes  Suitable for intermediate mounting  Colour control element  Type of control element  Interlockable  Type of electrical connection of main circuit  Degree of protection (IP), front side  Built-in device fixed built-in technique  Yes  No  No  Rocker lever  Black  Rocker lever  Frame clamp  IP20	Motor drive integrated			No
Suitable for ground mounting Suitable for front mounting 4-hole No Suitable for front mounting centre No Suitable for distribution board installation Suitable for intermediate mounting Yes Colour control element Suitable for control element Rocker lever Interlockable Type of electrical connection of main circuit Degree of protection (IP), front side  Yes Interlockable IP20	Voltage release optional			Yes
Suitable for front mounting 4-hole  No Suitable for front mounting centre  No Suitable for distribution board installation  Yes Suitable for intermediate mounting  Yes Colour control element  Type of control element  Interlockable  Type of electrical connection of main circuit  Degree of protection (IP), front side  No  No  No  Yes  Yes  Yes  Yes  Rocker lever  Frame clamp  IP20	Device construction			Built-in device fixed built-in technique
Suitable for front mounting centre  No Suitable for distribution board installation  Yes Suitable for intermediate mounting  Yes Colour control element  Type of control element  Interlockable  Type of electrical connection of main circuit  Degree of protection (IP), front side  No  Yes  Rocker lever  Yes  Frame clamp  IP20	Suitable for ground mounting			Yes
Suitable for distribution board installation  Yes  Suitable for intermediate mounting  Yes  Colour control element  Black  Type of control element  Rocker lever  Interlockable  Type of electrical connection of main circuit  Degree of protection (IP), front side  Yes  IP20	Suitable for front mounting 4-hole			No
Suitable for intermediate mounting  Yes  Colour control element  Type of control element  Rocker lever  Interlockable  Type of electrical connection of main circuit  Degree of protection (IP), front side  Yes  IP20	Suitable for front mounting centre			No
Colour control element Black Type of control element Rocker lever Interlockable Type of electrical connection of main circuit Frame clamp Degree of protection (IP), front side IP20	Suitable for distribution board installation			Yes
Type of control element Interlockable Type of electrical connection of main circuit Pegree of protection (IP), front side Rocker lever Yes It pegree of protection (IP), front side IP20	Suitable for intermediate mounting			Yes
Interlockable Yes Type of electrical connection of main circuit Frame clamp Degree of protection (IP), front side IP20	Colour control element			Black
Type of electrical connection of main circuit  Degree of protection (IP), front side  Frame clamp  IP20	Type of control element			Rocker lever
Degree of protection (IP), front side	Interlockable			Yes
	Type of electrical connection of main circuit			Frame clamp
Degree of protection (NEMA)	Degree of protection (IP), front side			IP20
	Degree of protection (NEMA)			

### **Dimensions**





# Additional product information (links)

Weight	http://ecat.moeller.net/flip-cat/?edition=HPLEN&startpage=17.171
Temperature dependency, Derating	http://ecat.moeller.net/flip-cat/?edition=HPLEN&startpage=17.172
Effective power loss	http://ecat.moeller.net/flip-cat/?edition=HPLEN&startpage=17.174
CurveSelect characteristics program	lem:lem:lem:lem:lem:lem:lem:lem:lem:lem:
Eaton configurator	http://www.eaton.eu/DE/Europe/Electrical/CustomerSupport/ConfigurationTools/ConfiguratorCircuitBreaker/index.htm
additional technical information for NZM power switch	https://es-assets.eaton.com/DOCUMENTATION/PDF/nzm_technic_de_en.pdf