DATASHEET - PN1-100

Switch-disconnector 3p, 100A

Part no.	PN1-100
	259141
EL Number	4358713
(Norway)	



Preduct name Face Modeler series K2M outch disconnector Face Preduct Legith/Right Preduct Legith/Right Preduct Legith/Right Mit Smillinets Preduct Legith/Right Mit Smillinets Preduct Legith/Right Mit Smillinets Preduct Legith/Right Mit Smillinets Preduct Right Mit Smillinets <th>(</th> <th></th>	(
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Product Langth/Baph Bellimite Product thight 16 Product thight 9000000000000000000000000000000000000	Part no.	PN1-100
Product with in Product With With With With With With With Wit	EAN	4015082591410
Product width Ball	Product Length/Depth	88 millimetre
Preduct weight B48 klogam Cardinations RoHS cardiom Preduct Versions RoHS cardiom Preduct Sub Rops None Preduct Sub Rops None Preduct Sub Rops None Dolivery program None Dolivery program None Number of Dolivery program None Drivery program None Drivery program None Drivery program None Status Sub Rops None Drivery program None Drivery program None Status Sub Rops None Drivery program None Angerage Rating None Angerage Rating None Ratus Sub Rops None Special features None Ratus Sub Rops None Ratus Sub Rop	Product height	145 millimetre
Compliances Rold's conform Compliances Rold's conform Product Todename Rold's conform Product Todename Rold's conform Product Sub Type Switch-disconnector Circuit brasker frame type Switch-disconnector Circuit brasker frame type Rold's conform Rold Social Soci	Product width	90 millimetre
Certifications EEQEN 60017 IEC Product Type NAM Product Type Switch disconnector Product Type Name Policery program Name Application Variant status Type Switch disconnector Oricit breaker frame type Name Amperage Rating Name Apperage Rating Name Special features Variant as mathemateristics including pastive drive to EC/EN SEDM and VDE 0113. Including operative switch disconnector Voltage rating Special features Nated impoles withstand voltage (Ui) at ALC - max Special features Voltage rating Special features Rated impoles withstand voltage (Ui) at ALC - max Special features Nated operating voltage (Ui) at ALC - max Special features Rated impoles withstand voltage (Uing) at axoliany contacts Special features Rated impoles withstand voltage (Uing) at axoliany contacts	Product weight	0.849 kilogram
Product Tadesame IEC Product Tage NZM Product Tage NZM Product Tage Nore Delivery program Use in unvertified supply systems at 650 V Application Use in unvertified supply systems at 650 V Type South discontector Circuit braker frame type Wather of poles Amperage Raing Three pole Amperage Raing Total Features Version as maintranscriptics including positive drive to EUCRN MDML and VDE D113. Special features Babeing Particis including positive drive to EUCRN MDML and VDE D13. Special features EEE Version as maintranscriptics including positive drive to EUCRN MDML and VDE D13. Special features EEE Version as maintranscriptics including positive drive to EUCRN MDML and VDE D13. Special features EEE Version as maintranscriptics including positive drive to EUCRN MDML and VDE D13. Raided operating voltage (Ue) at AC-max EEE Version as maintranscriptics including positive drive to EUCRN MDML and VDE D13. Raided operating voltage (Ue) at AC-max EEE Version as maintranscriptics including positive drive to EUCRN MDML and VDE D13. Raided discriptional current (u) EE Version as maintranscriptics includ	Compliances	RoHS conform
Product Type None Pointers bin Type None Delivery program None Application Image: State	Certifications	
Product Sub Type None Delivery program Image: Comparison of the subsect of the subsec	Product Tradename	NZM
Delivery program Construction Use in uncarthed supply systems at 550 V Type Switch disconnector Switch disconnector Circuit brasker frame type PNI Switch disconnector Amperage Rating PNI Three-pole Amperage Rating 100 A Version as maintenance-/sorvice switch Version as maintenance/sorvice switch Version asmitenance-/sorvice switch Version asm	Product Type	Switch-disconnector
Application Join and anthed supply systems at 880 V Type Switch-disconnector Direct breaker frame type Switch-disconnector Number of poles Three-pole Amperage Esting 100 A Features 100 A Special features System at severancy step installation (Severance Severance Sev	Product Sub Type	None
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Circuit breaker frame type PN1 Number of poles Three-pole Amperage Rating Tota-spole Features 100 A Features Wristion as emergency stop installation Special features Main switch characteristics including positive drive to EC/EN 00204 and VDE 013. Biolating characteristics including positive drive to EC/EN 00204 and VDE 013. Biolating characteristics including positive drive to EC/EN 00204 and VDE 013. Biolating strond to VDE 010 DPH7 3 and VDE 0080. Biolating advoid to VDE 010 DPH7 3 and VDE 0080 PH7 3 and VDE 0080. Biolating advoid to VDE 010 DPH7 3 and VDE		
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IsolationIsolationIsolationTechnical Data - ElectricalElectricalVotage raing600 - 600 VRated operating voltage (Ue) at AC - max600 V - 600 VRated operating voltage (Um) at axiliary contacts600 V - 600 VRated insulation voltage (Um) at axiliary contacts6000 VRated insulation voltage (Um) at axiliary contacts6000 VRated inguise withstand voltage (Ump) at axiliary contacts6000 VRated inguise withstand voltage (Ump) at axiliary contacts6000 VRated operational short-circuit current (Iq)6000 VRated operational short-circuit current (Iq)6000 VRated operational short-circuit current with back-up fuse0 ARated operational short-circuit current with back-up fuse0 ARated conditional short-circuit current with back-up fuse800 VRated at ort-time withstand current (Ico)0 ARated conditional short-circuit current with back-up fuse800 VRated conditional short-circuit current with downstream fuse800 VRated short-time withstand current (Ico)2 KARated short-time withstand c		Version as emergency stop installation Version as maintenance-/service switch
Voltage rating690 V - 690 VRated operating voltage (Ui)690 V - 690 VRated insulation voltage (Uin)690 VRated insulation voltage (Uinp) at auxiliary contacts600 VRated inpulse withstand voltage (Uinp) at anin contacts600 VRated conditional short-circuit current (Iq)600 VRated operational current0 kARated permanent current at AC-21, 400 V0 ARated permanent current at AC-23, 400 V0 ARated conditional short-circuit current with back-up fuse0 ARated conditional short-circuit current with back-up fuse0 ARated conditional short-circuit current with downstream fuse0 ARated conditional short-circuit current with downstream fuse0 ARated conditional short-circuit current with downstream fuse0 B KA at 690 V100 kA at 690 V100 gG/gL100 kA at 690 V100 gG/gL100 kA at 690 V100 gG/gL100 gG/gL100 gG/gL100 kA at 690 V100 gG/gL <td>Special features</td> <td>Isolating characteristics to IEC/EN 60947-3 and VDE 0660. Busbar tag shroud to VDE 0160 Part 100.</td>	Special features	Isolating characteristics to IEC/EN 60947-3 and VDE 0660. Busbar tag shroud to VDE 0160 Part 100.
Rated operating voltage (Ue) at AC - maxBol VRated insulation voltage (Ui)Bol VRated insulation voltage (Uin) at auxiliary contactsBol VRated impulse withstand voltage (Uimp) at main contactsBol VRated conditional short-circuit current (Iq)D kARated operational currentBol A (415 V AC-22/23A, making and breaking capacity) 160 A (890 V AC-22/23A, making and breaking capacity)Rated operating short-circuit current with back-up fuseD ARated short-circuit current with downstream fuseD (b & A at 400/415 V 100 & A	Technical Data - Electrical	
Rated insulation voltage (Ui)Rated impulse withstand voltage (Uimp) at auxiliary contacts600 VRated impulse withstand voltage (Uimp) at main contacts6000 VRated conditional short-circuit current (Iq)0 kARated operational current160 A (415 V AC-22/23A, making and breaking capacity) 160 A (680 V AC-22/23A, making and breaking capacity)Rated operational short-circuit current with back-up fuse mated short-time withstand current (Icw)2 kARated short-time withstand current (I = 0.3 s)2 kARated short-time withstand current (I = 1 s)2 kARated short-circuit making capacity Icm at 690 V, 50/60 Hz2 kARated operating power at AC-32, 400 V0 kWWRated operating power at AC-32, 400 V5 kW	Voltage rating	690 V - 690 V
Rated inpulse withstand voltage (Uimp) at auxiliary contacts6000 VRated inpulse withstand voltage (Uimp) at main contacts6000 VRated conditional short-circuit current (Iq)0 kARated operational current0 kARated perananent current at AC-21, 400 V0 ARated permanent current at AC-21, 400 V0 ARated conditional short-circuit current with back-up fuse0 ARated conditional short-circuit current with back-up fuse0 ARated conditional short-circuit current with back-up fuse0 ARated conditional short-circuit current with downstream fuse100 kA at 400/415 VRated short-time withstand current (Icw)100 kA at 400/415 VRated short-time withstand current (Icw)2 kARated short-time withstand current (Icw)2 kARated operating frequency50 HzRated operating power at AC-3, 400 V2 kARated operating power at AC-3, 400 V6 kGRated operating power at AC-3, 400 V6 kG </td <td>Rated operating voltage (Ue) at AC - max</td> <td>690 V</td>	Rated operating voltage (Ue) at AC - max	690 V
Rated impulse withstand voltage (Uimp) at main contacts6000 VRated conditional short-circuit current (Iq)0 kARated operational current160 A (415 V AC-22/23A, making and breaking capacity) 160 A (690 V AC-22/23A, making and breaking capacity) 160 A (690 V AC-22/23A, making and breaking capacity)Rated permanent current at AC-21, 400 V0 ARated permanent current at AC-23, 400 V0 ARated conditional short-circuit current with back-up fuse0 ARated conditional short-circuit current with back-up fuse00 kA at 690 V 100 gG/gLRated conditional short-circuit current with downstream fuse100 kA at 690 V 100 gG/gLRated short-time withstand current (Icw)2 kARated short-time withstand current (t = 0.3 s)2 kARated operating frequency2 kARated short-circuit making capacity lcm at 690 V, 50/60 Hz2 kARated operating power at AC-3, 400 V6 kWRated operating power at AC-3, 400 V6 kW	Rated insulation voltage (Ui)	690 V
Rated conditional short-circuit current (Iq)Image: Conditional short-circuit current (Iq)Image: Conditional short-circuit current (Iq)Rated operational current160 A (415 V AC-22/23A, making and breaking capacity)Rated permanent current at AC-21, 400 V0ARated permanent current at AC-23, 400 V0ARated conditional short-circuit current with back-up fuse0ARated conditional short-circuit current with back-up fuse0ARated conditional short-circuit current with downstream fuse0ARated short-time withstand current (Icw)100 k A at 400/415 VRated short-time withstand current (Icw)2 kARated operating frequency2 kARated operating frequency2 kARated operating power at AC-3, 400 V0 kRated operating power at AC-23, 400 V0 kWRated operating power at AC-23, 400 V0 kW	Rated impulse withstand voltage (Uimp) at auxiliary contacts	6000 V
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Rated permanent current at AC-21, 400 V160 A (690 V AC-22/23A, making and breaking capacity)Rated permanent current at AC-21, 400 V0 ARated permanent current at AC-23, 400 V0 ARated conditional short-circuit current with back-up fuse0 ARated conditional short-circuit current with back-up fuse0 ARated conditional short-circuit current with downstream fuse0 ARated short-time withstand current (lcw)0 ARated short-time withstand current (lcw)2 kARated operating frequency2 kARated operating requency50 HzRated operating power at AC-3, 400 V0 kWRated operating power at AC-3, 400 V0 kW	Rated conditional short-circuit current (Iq)	0 kA
Rated permanent current at AC-23, 400 VO ARated conditional short-circuit current with back-up fuse80 k At 690 V 100 gG/gL 100 k At 400/415 V 100 k At 400/415 V 100 k At 400/415 V 100 gG/gLRated conditional short-circuit current with downstream fuse100 k At 400/415 V 100 k At 400/415 V 100 gG/gLRated short-time withstand current (lcw)2 kARated short-time withstand current (t = 0.3 s)2 kARated short-time withstand current (t = 1 s)2 kARated operating frequency50 HzRated operating power at AC-3, 400 V6 kWRated operating power at AC-3, 400 V6 kW	Rated operational current	
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Integrating power at AC-3, 400 VIntegrating power at AC-3, 400 VIntegrating power at AC-3, 400 VIntegrating power at AC-23, 400 V	Rated permanent current at AC-23, 400 V	0 A
Rated short-time withstand current (lcw)Image: state short-time withstand current (t = 0.3 s)Image: state short-time withstand current (t = 1 s)Image: state short-time with short-	Rated conditional short-circuit current with back-up fuse	100 gG/gL
Rated short-time withstand current (t = 0.3 s)Image: Constant of the stant of the st	Rated conditional short-circuit current with downstream fuse	10 kA at 690 V
Rated short-time withstand current (t = 1 s)2 kARated operating frequency50 HzRated short-circuit making capacity Icm at 690 V, 50/60 Hz28 kARated operating power at AC-3, 400 V60 VRated operating power at AC-23, 400 V <td>Rated short-time withstand current (Icw)</td> <td>2 kA</td>	Rated short-time withstand current (Icw)	2 kA
Rated operating frequency50 HzRated short-circuit making capacity Icm at 690 V, 50/60 Hz2.8 kARated operating power at AC-3, 400 VCRated operating power at AC-23, 400 VCStated operating power at AC-23, 400 VSKated operating power at AC-23, 400 VS<	Rated short-time withstand current (t = 0.3 s)	2 kA
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 55 kW	Rated short-time withstand current (t = 1 s)	2 kA
Rated operating power at AC-3, 400 V 0 kW Rated operating power at AC-23, 400 V 55 kW	Rated operating frequency	50 Hz
Rated operating power at AC-23, 400 V 55 kW	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
Switching power at 400 V	Rated operating power at AC-23, 400 V	55 kW
	Switching power at 400 V	0 kW

Short-circuit protective device fuses - max	125 A gL
Electrical connection type of main circuit	Frame clamp
Isolation	500 V AC (between auxiliary contacts and main contacts)
190101011	300 V AC (between the auxiliary contacts)
Number of operations per hour - max	120
Handle type	Rocker lever
Overvoltage category	III
Pollution degree	3
Lifespan, electrical	1000 operations at 400 V AC-23A 7500 operations at 690 V AC-1 10000 operations at 400 V AC-1 10000 operations at 415 V AC-1 1000 operations at 415 V AC-23A 1000 operations at 690 V AC-23A
Direction of incoming supply	As required
Technical Data - Mechanical	
Mounting Method	Built-in device fixed built-in technique Distribution board installation Fixed Intermediate mounting Ground mounting
Degree of protection	IP20 (basic protection type, in the area of the HMI devices) Other
Degree of protection (IP), front side	IP20 IP40 (with insulating surround) IP66 (with door coupling rotary handle)
Degree of protection (terminations)	IP10 (tunnel terminal) IP00 (terminations, phase isolator and band terminal)
Protection against direct contact	Finger and back-of-hand proof to DIN EN 50274/VDE 0106 part 110
Shock resistance	20 g (half-sinusoidal shock 20 ms)
Number of auxiliary contacts (change-over contacts)	0
Number of auxiliary contacts (normally closed contacts)	0
Number of auxiliary contacts (normally open contacts)	0
Number of switches	1
Handle color	Black
Switch positions	Ι, Ο
Climatic proofing	Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78
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: 100 A
Lifespan, mechanical	20000 operations
Technical Data - Mechanical - Terminals	
Standard terminals	Box terminal
Optional terminals	Connection on rear. Screw terminal. Tunnel terminal
Terminal capacity (aluminum solid conductor/cable)	10 mm ² - 16 mm ² (2x) direct at switch rear-side connection 10 mm ² - 16 mm ² (1x) direct at switch rear-side connection 16 mm ² (1x) at tunnel terminal
Terminal capacity (aluminum stranded conductor/cable)	25 mm ² - 95 mm ² (1x) at 1-hole tunnel terminal
Terminal capacity (copper busbar)	Min. 12 mm x 5 mm direct at switch rear-side connection Max. 16 mm x 5 mm direct at switch rear-side connection M6 at rear-side screw connection
Terminal capacity (copper solid conductor/cable)	10 mm ² - 16 mm ² (1x) at box terminal 10 mm ² - 16 mm ² (1x) direct at switch rear-side connection 6 mm ² - 16 mm ² (2x) at box terminal 6 mm ² - 16 mm ² (2x) direct at switch rear-side connection 16 mm ² (1x) at tunnel terminal
Terminal capacity (copper stranded conductor/cable)	25 mm ² (2x) direct at switch rear-side connection 25 mm ² - 70 mm ² (1x) direct at switch rear-side connection 6 mm ² - 25 mm ² (2x) at box terminal 10 mm ² - 70 mm ² (1x) at box terminal Terminal capacity hint: Up to 95 mm ² can be connected depending on the cable manufacturer 25 mm ² - 95 mm ² (1x) at 1-hole tunnel terminal
Terminal capacity (copper strip)	Max. 9 segments of 9 mm x 0.8 mm at box terminal Min. 2 segments of 9 mm x 0.8 mm at box terminal
Design verification as per IEC/EN 61439 - technical data	

Rated operational current for specified heat dissipation (In)	100 A
Equipment heat dissipation, current-dependent	11.4 W
Ambient operating temperature - min	-25 °C
Ambient operating temperature - max	70 °C
Ambient storage temperature - min	40 °C
Ambient storage temperature - max	70 °C
Design verification as per IEC/EN 61439	
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 Resist. of insul. mat. to abnormal heat/fire by internal elect. 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.
10.9.2 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.
Additional information	
Functions	Disconnectors/main switches Interlockable

Technical data ETIM 9.0

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

Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Switch disconnector (ecl@ss13-27-37-14-03 [AKF060018])

[AKF060018])		
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
Number of switches		1
Max. rated operation voltage Ue AC	V	690
Rated operating voltage	V	690 - 690
Rated permanent current lu	А	
Rated permanent current at AC-23, 400 V	А	0
Rated permanent current at AC-21, 400 V	А	0
Rated operation power at AC-3, 400 V	kW	0
Rated short-time withstand current Icw	kA	2
Rated operation power at AC-23, 400 V	kW	55
Switching power at 400 V	kW	0
Conditioned rated short-circuit current Iq	kA	0
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 floor 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
With pre-assembled cabling		No
Degree of protection (IP), front side		IP20
Degree of protection (NEMA)		Other
Width	mm	90
Height	mm	145
Depth	mm	88
Width in number of modular spacings		