## 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>	(	
Part no.   Phillio     Evil   Billinders     Product height   Billinders     Product height   Billinders     Product witch   Billinders     Product witch   Billinders     Product witch   Billinders     Destingting   Billinders     Destingting   Billinders     Destingting   Billinders     Product fungting   Billinders     Product fu	General specifications	
EA   A     Podect length Oppin   A     Podect length Oppin   B     Podect twight   B     Podect twight   B     Podect twight   B     Compliances   B     Cartinations   B     Podect Twight   B     Compliances   B     Podect Twight   B </td <td>Product name</td> <td>Eaton Moeller series NZM switch-disconnector</td>	Product name	Eaton Moeller series NZM switch-disconnector
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
Type     Fig     Switch-disconnector       Circuit breaker frame type     File     File       Number of poles     Three-pole     Three-pole       Amperage Rating     Version as emergency stop installation     Wersion as emirgency stop installation       Special features     Version as emirgency stop installation     Wersion as emirgency stop installation       Special features     Version as emirgency stop installation     Wersion as emirgency stop installation       Vorsion as main switch     Name witch characteristics including positive drive to IEC/EN 80294 and VDE 0103. Installation and service in the CV 80394 and VDE 0103. Installation switch characteristics in IEC/CV 80294 and VDE 000. Rated operating ontage (Uing) at auxiliary contacts     600 V       Rated impulse withstand voltage (Uing) at auxiliary contacts     600 V     600 V       Rated conditional short-circuit current (u)     600 V     600 V       Rated conditional short-circuit current (u)     600 V     600 V       Rated operational current     0 A     600 V       Rated conditional short-circuit current (u)     600 V     600 V       Rated conditional short-circuit current with back-up fuse     600 V     600 V       Rated conditional short-circuit current with back-up fuse     600 V     600 V       Rated conditional short-circuit	Delivery program	
Type     Fig     Switch-disconnector       Circuit breaker frame type     File     File       Number of poles     Three-pole     Three-pole       Amperage Rating     Version as emergency stop installation     Wersion as emirgency stop installation       Special features     Version as emirgency stop installation     Wersion as emirgency stop installation       Special features     Version as emirgency stop installation     Wersion as emirgency stop installation       Vorsion as main switch     Name witch characteristics including positive drive to IEC/EN 80294 and VDE 0103. Installation and service in the CV 80394 and VDE 0103. Installation switch characteristics in IEC/CV 80294 and VDE 000. Rated operating ontage (Uing) at auxiliary contacts     600 V       Rated impulse withstand voltage (Uing) at auxiliary contacts     600 V     600 V       Rated conditional short-circuit current (u)     600 V     600 V       Rated conditional short-circuit current (u)     600 V     600 V       Rated operational current     0 A     600 V       Rated conditional short-circuit current (u)     600 V     600 V       Rated conditional short-circuit current with back-up fuse     600 V     600 V       Rated conditional short-circuit current with back-up fuse     600 V     600 V       Rated conditional short-circuit		Use in unearthed supply systems at 690 V
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		
Number of poles     Immer-pole       Amperage Rasing     100 A       Features     Version as maintenance-/service switch       Special features     Version as maintenance-/service switch       Special features     Main sector secto		PN1
Amparage Rating   100 A     Features   Version as emirgency stop installation     Special features   Wersion as mains writch     Special features   Main switch characteristics including positive drive to IEC/EN 60204 and VDE 013. Mains writch characteristics including positive drive to IEC/EN 60204 and VDE 013. Mains writch characteristics in CECN 90947-3 and VDE 0000. Bushar trag shroad to VDE 0100 Part 100. Rated operating voltage (Ue) at AC - max     Voltage rating   660 V - 680 V     Rated operating voltage (Ue) at AC - max   6600 V     Rated operating voltage (Ump) at auxiliary contacts   6600 V     Rated inpulse withstand voltage (Ump) at auxiliary contacts   6600 V     Rated operating contacts   6600 V     Rated operating contacts   6600 V     Rated operational current   0 A     Rated operational current   0 A     Rated operational current with back-up fuse   0 A     Rated conditional short-circuit current with back-up fuse   0 A     Rated conditional short-circuit current with back-up fuse   100 A (4 400/415 V)     Rated conditional short-circuit current with back-up fuse   100 A (4 400/415 V)     Rated conditional short-circuit current with back-up fuse   100 A (4 400/415 V)     Rated conditional short-circuit current with back-up fuse   2 kA     Rated conditional short-circuit current (ter)   2 kA     Rated operating requency		
Features     Version as main switch       Special features     Main switch haracteristics including positive drive to IEO/EN 8024 and VDE 013.       Special features     Main switch haracteristics including positive drive to IEO/EN 8024 and VDE 013.       Technical Data - Electrical     Main switch haracteristics including positive drive to IEO/EN 8024 and VDE 002.       Voltage rating     Main switch haracteristics including positive drive to IEO/EN 8024 and VDE 002.       Rated operating voltage (Ue) at AC - max     650 V - 690 V       Rated operating voltage (Uin) at axiliary contacts     650 V - 690 V       Rated inpulse withstand voltage (Uinp) at axiliary contacts     650 V - 690 V       Rated angulse withstand voltage (Uinp) at axiliary contacts     650 V - 690 V       Rated operating voltage (Uinp) at axiliary contacts     650 V - 690 V       Rated angulse withstand voltage (Uinp) at axiliary contacts     650 V       Rated permanent current (Iq)     650 V - 690 V       Rated permanent current at AC-21, 400 V     0 A       Rated permanent current at AC-22, 400 V     0 A       Rated conditional short-circuit current with back-up fuse     0 A       Rated conditional short-circuit current with back-up fuse     0 A       Rated short-line withstand current (Icw)     7 A       Rated short-line withstand current (Icw)     <		
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
Rated operational current160 A (415 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 fuse80 kA at 690 V 100 gG/gL 100 kA at 400/415 VRated conditional short-circuit current with downstream fuse80 kA at 690 V 100 gG/gL 100 kA at 400/415 VRated short-time withstand current (lcw)2 kARated short-time withstand current (t = 0.3 s)2 kARated operating frequency2 kARated operating frequency20 HzRated short-circuit making capacity lcm at 690 V, 50/60 Hz2 kARated operating power at AC-33, 400 V6 M (Geo V)Rated operating power at AC-33, 400 V6 M (Geo V)Rated operating power at AC-33, 400 V6 M (Geo V)Rated operating power at AC-33, 400 V6 M (Geo V)Rated operating power at AC-33, 400 V6 M (Geo V)Rated operating power at AC-33, 400 V6 M (Geo V)Rated operating power at AC-33, 400 V6 M (Geo V)Rated operating power at AC-33, 400 V6 M (Geo V)Rated operating power at AC-33, 400 V6 M (Geo V)Rated operating power at AC-33, 400 V6 M (Geo V)Rated operating power at AC-33, 400 V6 M (Geo V)Rated operating power at AC-33, 400 V6 M (Geo V)Rated operating power at AC-33, 400 V6 M (Geo V)Rated operating power at AC-33, 400 V6 M (Geo V)Rated operating power at AC-33, 400 V6 M (Geo	Rated impulse withstand voltage (Uimp) at main contacts	6000 V
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	
Rated conditional short-circuit current with back-up fuse     Rated conditional short-circuit current with downstream fuse     Rated conditional short-circuit current with downstream fuse       Rated conditional short-circuit current with downstream fuse     Rated short-time withstand current (Icw)     Rated short-time withstand current (I = 0.3 s)       Rated short-time withstand current (t = 1 s)     Rated short-circuit making capacity Icm at 690 V, 50/60 Hz     Rated short-circuit making capacity Icm at 690 V, 50/60 Hz       Rated operating power at AC-3, 400 V     Kated operating power at AC-23, 400 V     Kated short-circuit making capacity Icm at 690 V, 50/60 Hz       Rated operating power at AC-23, 400 V     Kated short-circuit making capacity Icm at 690 V, 50/60 Hz     Kated short-circuit making capacity Icm at 690 V, 50/60 Hz       Rated operating power at AC-23, 400 V     Kated short-circuit making capacity Icm at 690 V, 50/60 Hz     Kated short-circuit making capacity Icm at 690 V, 50/60 Hz       Rated operating power at AC-23, 400 V     Kated short-circuit making capacity Icm at 690 V, 50/60 Hz     Kated short-circuit making capacity Icm at 690 V, 50/60 Hz       Rated operating power at AC-23, 400 V     Kated State	Rated permanent current at AC-21, 400 V	0 A
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 <sup>2</sup> - 16 mm <sup>2</sup> (2x) direct at switch rear-side connection 10 mm <sup>2</sup> - 16 mm <sup>2</sup> (1x) direct at switch rear-side connection 16 mm <sup>2</sup> (1x) at tunnel terminal
Terminal capacity (aluminum stranded conductor/cable)	25 mm <sup>2</sup> - 95 mm <sup>2</sup> (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 <sup>2</sup> - 16 mm <sup>2</sup> (1x) at box terminal 10 mm <sup>2</sup> - 16 mm <sup>2</sup> (1x) direct at switch rear-side connection 6 mm <sup>2</sup> - 16 mm <sup>2</sup> (2x) at box terminal 6 mm <sup>2</sup> - 16 mm <sup>2</sup> (2x) direct at switch rear-side connection 16 mm <sup>2</sup> (1x) at tunnel terminal
Terminal capacity (copper stranded conductor/cable)	25 mm <sup>2</sup> (2x) direct at switch rear-side connection 25 mm <sup>2</sup> - 70 mm <sup>2</sup> (1x) direct at switch rear-side connection 6 mm <sup>2</sup> - 25 mm <sup>2</sup> (2x) at box terminal 10 mm <sup>2</sup> - 70 mm <sup>2</sup> (1x) at box terminal Terminal capacity hint: Up to 95 mm <sup>2</sup> can be connected depending on the cable manufacturer 25 mm <sup>2</sup> - 95 mm <sup>2</sup> (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		