## Main switch, P3, 100 A, rear mounting, 3 pole



Part no. P3-100/XM 172837

General specifications	
Product name	Eaton Moeller® series P3 Main switch
Part no.	P3-100/XM
EAN	4015081694204
Product Length/Depth	82 millimetre
Product height	84 millimetre
Product width	72 millimetre
Product weight	0.29 kilogram
Certifications	IEC/EN 60947 UL Category Control No.: NLRV CE CSA-C22.2 No. 60947-4-1-14 CSA Class No.: 3211-05 IEC/EN 60947-3 CSA File No.: 012528 UL 60947-4-1 UL File No.: E36332 UL IEC/EN 60204 CSA VDE 0660 CSA-C22.2 No. 94
Product Tradename	P3
Product Type	Main switch
Product Sub Type	None
Catalog Notes	Rated Short-time Withstand Current (Icw) for a time of 1 second
Features & Functions	
Features	Version as main switch
Number of poles	3
General information	
Accessories	Auxiliary contact or neutral conductor fitted by user.
Degree of protection	NEMA 1
Degree of protection (front side)	IP65
Lifespan, mechanical	100,000 Operations
Mounting method	Rear mounting
Mounting position	As required
Operating frequency	1200 Operations/h
Overvoltage category	III
Pollution degree	3
Rated impulse withstand voltage (Uimp)	6000 V AC
Safe isolation	440 V AC, Between the contacts, According to EN 61140
Safety parameter (EN ISO 13849-1)	B10d values as per EN ISO 13849-1, table C.1
Shock resistance	15 g, Mechanical, According to IEC/EN 60068-2-27, Half-sinusoidal shock 20 ms
Suitable for	Intermediate mounting Ground mounting Branch circuits, suitable as motor disconnect, (UL/CSA)
Climatic environmental conditions	
Ambient operating temperature - min	-25 °C
Ambient operating temperature - max	50 °C
Ambient operating temperature (enclosed) - min	-25 °C
Ambient operating temperature (enclosed) - max	40 ° C
Climatic proofing	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
Terminal capacities	
Terminal capacity	2 x (2.5 - 10) mm <sup>2</sup> , solid or stranded

	2 x (1.5 - 6) mm², flexible with ferrules to DIN 46228 1 x (2.5 - 35) mm², solid or stranded 14 - 2 AWG, solid or flexible with ferrule
Screw size	M5, Terminal screw
Tightening torque	26.5 lb-in, Screw terminals 3 Nm, Screw terminals
Electrical rating	
Rated breaking capacity at 220/230 V (cos phi to IEC 60947-3)	760 A
Rated breaking capacity at 400/415 V (cos phi to IEC 60947-3)	740 A
Rated breaking capacity at 500 V (cos phi to IEC 60947-3)	880 A
Rated breaking capacity at 660/690 V (cos phi to IEC 60947-3)	520 A
Rated operational current (Ie) at AC-3, 220 V, 230 V, 240 V	71 A
Rated operational current (Ie) at AC-3, 380 V, 400 V, 415 V	71 A
Rated operational current (Ie) at AC-3, 500 V	65 A
Rated operational current (Ie) at AC-3, 660 V, 690 V	23.8 A
Rated operational current (Ie) at AC-21, 440 V	100 A
Rated operational current (Ie) at AC-23A, 230 V	100 A
Rated operational current (Ie) at AC-23A, 400 V, 415 V	100 A
Rated operational current (Ie) at AC-23A, 500 V	96 A
Rated operational current (Ie) at AC-23A, 690 V	68 A
Rated operational current (Ie) at DC-1, load-break switches I/r = 1 ms	100 A
Rated operational current (Ie) at DC-23A, 24 V	50 A
Rated operational current (Ie) at DC-23A, 48 V	50 A
Rated operational current (Ie) at DC-23A, 60 V	50 A
Rated operational current (Ie) at DC-23A, 120 V	25 A
Rated operational power at AC-3, 380/400 V, 50 Hz	37 kW
Rated operational power at AC-3, 415 V, 50 Hz	37 kW
Rated operational power at AC-3, 690 V, 50 Hz	37 kW
Rated operational power at AC-23A, 220/230 V, 50 Hz	30 kW
Rated operational power at AC-23A, 400 V, 50 Hz	55 kW
Rated operational power at AC-23A, 500 V, 50 Hz	55 kW
Rated operational power at AC-23A, 690 V, 50 Hz	55 kW
Rated operational voltage (Ue) at AC - max	690 V
Rated uninterrupted current (Iu)	100 A
Uninterrupted current	Rated uninterrupted current lu is specified for max. cross-section.
Short-circuit rating	
Rated conditional short-circuit current (Iq)	4 kA (Load side) 80 kA (Supply side)
Rated short-time withstand current (Icw)	2 kA
Short-circuit current rating (basic rating)	150A, max. Fuse, SCCR (UL/CSA) 10 kA, SCCR (UL/CSA)
Short-circuit protection rating  Switching capacity	100 A gG/gL, Fuse, Contacts
Load rating	2 x l# (with intermittent operation class 12, 25 % duty factor) 1.3 x l# (with intermittent operation class 12, 60 % duty factor) 1.6 x l# (with intermittent operation class 12, 40 % duty factor)
Number of contacts in series at DC-23A, 24 V	1
Number of contacts in series at DC-23A, 48 V	2
Number of contacts in series at DC-23A, 60 V	2
Number of contacts in series at DC-23A, 120 V	3
Switching capacity (main contacts, general use)	100 A, If used with neutral conductor IU = max. 90 A, Rated uninterrupted curren max. (UL/CSA)
Switching capacity (auxiliary contacts, general use)	10A, IU, (UL/CSA)
Switching capacity (auxiliary contacts, pilot duty)	P600 (UL/CSA) A600 (UL/CSA)
Rated making capacity up to 690 V (cos phi to IEC/EN 60947-3)	950 A
Voltage per contact pair in series	60 V
Motor rating	

Control circuit reliability  I failure per 100,000 switching operations statistically determined, at 24 V DC, 10 mA)  Number of auxiliary contacts (change-over contacts)  Number of auxiliary contacts (normally closed contacts)  Number of auxiliary contacts (normally open contacts)  O  Actuator  Actuator color  Actuator type  Other		
Assigned motor power at 2020/28/ V, 58 Hz, 3-phase Assigned motor power at 2020/28/ V, 58 Hz, 1-phase Assigned motor power at 2020/28/ V, 58 Hz, 3-phase Assigned motor power at 4024/89 V, 68 Hz, 3-phase Assigned motor power at 4024/89 V, 68 Hz, 3-phase Assigned motor power at 572/80 V, 80 Hz, 3-phase Control circuit railebility Control circuit railebility I failure par 100,000 switching operations statistically determined, at 24 V DC, 10 m/s) Number of auxiliary contracts (change-over contacts) O numb	Assigned motor power at 115/120 V, 60 Hz, 1-phase	5 HP
Assigned motor prover at 200240 V, 60 Hz, 3-phase Assigned motor prover at 200240 V, 60 Hz, 3-phase Assigned motor gover at 200240 V, 60 Hz, 3-phase BHP Assigned motor power at 97-8000 V, 60 Hz, 3-phase BHP Assigned motor power at 97-8000 V, 60 Hz, 3-phase Contracts  Control circuit reliability Murber of auxiliary contacts (brange-over contacts) Number of auxiliary contacts (bran	Assigned motor power at 200/208 V, 60 Hz, 1-phase	10 HP
Assigned mater power at 200/240 V, 60 Hz, 3-phase Assigned mater power at 575/600 V, 60 Hz, 3-phase Assigned mater power at 575/600 V, 60 Hz, 3-phase Contacts  Corroci circuit reliability  Number of auxiliary contacts (change over contacts)  Number of auxiliary contacts (change over contacts)  Number of auxiliary contacts (normally closed contacts)  Number of auxiliary contacts (normally closed contacts)  Actuator  Actuator  Actuator vipo  Design verification  Equipment heart dissipation, current-dependent Peid  Need dissipation page object.  Equipment heart dissipation, current-dependent Peid  Actuator of 3-5 W  Rated operational current for specified heat dissipation (iii)  100 A  Statis cheart dissipation, current-dependent Peid  Actuator of the specified heat dissipation (iii)  23.1 Verification of thermal stability of enclosures  102.2.2 Corrosian resistance  Meets the product standard's requirements.  102.2.3 Verification of resistance of insulating materials to normal heat  102.3 Passis, of insul, mat to altonomal heat/fire by internal elect effects  102.3 Passis, of insul, mat to altonomal heat/fire by internal elect effects  102.3 Resistance in ultra-voice! (IV) reliation  102.5 Resistance in ultra-voice! (IV) reliation  102.5 Resistance in ultra-voice! (IV) reliation  102.5 Resistance in ultra-voice! (IV) reliation  102.6 Resistance in ultra-voice! (IV) reliation  102.7 Inscriptions  Meets the product standard's requirements.  102.8 Dees not apply, since the entire switchgear needs to be evaluated.  103.6 Incorporation of switching devices and components  103.7 Inscriptions  Meets the product standard's requirements.  104.7 Inscriptions  Meets the product standard's requirements.  105.8 Praection against electric shock  Does not apply, since the entire switchgear needs to be evaluated.  104.7 Inscriptions  Meets the product standard's requirements.  105.8 Praection against electric shock  Does not apply, since the entire switchgear needs to be evaluated.  104.8 Inspried a lectric electric and connecti	Assigned motor power at 200/208 V, 60 Hz, 3-phase	20 HP
Assigned motor power at 400490 V, 60 Hz, 3-phase Assigned motor power at 575400 V, 80 Hz, 3-phase Contacts  Control circuit reliability  Control circuit reliability  Number of auxiliary contacts (change-over contacts)  Actuator  Actuator  Actuator color  Actuator type  Design verification  Equipment bear dissipation, current-dependent Prid  Heat dissipation paper by, current-dependent Prid  Heat dissipation paper by, current-dependent Prid  Heat dissipation paper by, current-dependent Prid  Heat dissipation oper by, current-dependent Prid  Heat dissipation oper by, current-dependent Prid  Heat dissipation on othermal stability of enclosures  Meets the product standard's requirements.  102.23 Verification of resistance of insulating materials to normal heat  102.23 Verification of resistance of insulating materials to normal heat  102.23 Verification of resistance of insulating materials to normal heat  102.24 Everification of resistance of insulating materials to normal heat  102.25 Uffiting  Des not apply, since the entire switchgare needs to be evaluated.  102.26 Everification of auxiliary des (UV) resistance only in contaction with protective shield.  102.27 Inscriptions  102.28 Everification of auxiliary descriptions  102.29 Every frequience of protection of auxiliary descriptions  102.29 Every frequience of protection of auxiliary descriptions  102.29 Every frequience of protection of auxiliary descriptions  102.30 Every frequience of protection of auxiliary descriptions  102.40 Every frequience of protection of auxiliary descriptions  102.51 Every frequience of protection of auxiliary descriptions  102.61 Every frequience of protection of auxiliary descriptions  102.71 Inscriptions  102.72 Inscriptions  102.73 Inscriptions  102.74 Every frequience of control auxiliary descriptions  102.74 Every fr	Assigned motor power at 230/240 V, 60 Hz, 1-phase	15 HP
Control circuit reliability Control circuit reliability Control circuit reliability Number of auxiliary contacts (change-over contacts) Number of auxiliary contacts (change-over contacts) Number of auxiliary contacts (normally open contacts) Other  Actuator  Actuator  Other  Actuator pe  Design verification  Equipment heat dissipation, current-dependent Peid Neat dissipation (apportly Peias) Neat dissipation on per polit, current-dependent Peid Neat dissipation, non-current-dependent Peid Neat dissipation, non-current-dependent Peid Neat dissipation on per polit, current-dependent Peid Neat dissipation on reliability of molessure Neat dissipation on reliability of molessure Neat dissipation on districts stability of molessure Neats of personal stability of molessure Neats the product standard's requirements. Neats the product standard's requirements in the evaluated. Neats the produ	Assigned motor power at 230/240 V, 60 Hz, 3-phase	25 HP
Contracts  Control circuit reliability  I failure per 100,000 evirching operations statistically determined, at 24 V DC, 10 mAJ  Number of auxiliary contacts (change-over contacts)  0 Number of auxiliary contacts (normally closed contacts)  Actuator  Actuator coinr  Actuator type  Design verification  Equipment have dissipation, current-dependent Pvid  Heat dissipation capacity Pdiss  0W  Heat dissipation capacity Pdiss  0W  Heat dissipation care prope, current-dependent Pvid  10 A  Statisc heat dissipation, on current-dependent Pvid  10 A  Statisc heat dissipation non current-dependent Pvid  10 A  Statisc heat dissipation, on current-dependent Pvid  10 A  Statisc heat dissipation, non current-dependent Pvid  10 A  Statisc heat dissipation, non current-dependent Pvid  10 A  Statisc heat dissipation, non current-dependent Pvid  10 A  Statisc heat dissipation in the mail stability of enclosures  Meets the product standard's requirements.  10 A  Meets the product standard's requirements.  10 A  Statisc heat dissipation in season in existance of insisting materials to normal heat  10 A  Statisc heat dissipation non-current-dependent Pvid  Does not apply, since enter entire switchagear needs to be evaluated.  10 A  Clearrance and creepage distances  Meets the product standard's requirements.  10 A  Does not apply, since the entire switchagear needs to be evaluated.  10 A  Clearrance and creepage distances  Meets the product standard's requirements.  10 Des not apply, since the entire switchagear needs to be evaluated.  10 I I I Mental disertis and compa	Assigned motor power at 460/480 V, 60 Hz, 3-phase	60 HP
Control circuit reliability  I failure per 100,000 switching operations statistically determined, at 24 V DC, 10 mAJ  Number of auxiliary contacts (change-over contacts)  Number of auxiliary contacts (change-over contacts)  Number of auxiliary contacts (normally closed contacts)  Actuator  Actuator  Actuator rype  Design verification  Equipment head dissipation, current-dependent Pvid  Head dissipation or paper. Pvids  OW  Head dissipation or paper. Pvids  Static head dissipation, non-current-dependent Pvid  Head dissipation or polic, current-dependent Pvid  Head dissipation or polic, current-dependent Pvid  Head dissipation or polic proceding head dissipation (in)  Static head dissipation, non-current-dependent Pvid  10.2.2 Corrosion resistance  Meets the product standard's requirements.  10.2.3.2 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  10.2.3.2 Verification of resistance in dissipation, non-current-spendent Pvis  10.2.2.3 Resistance is ultra-violet (UV) radiation  10.2.3.2 Verification of resistance in dissipation, materials to normal heat  10.2.3.3 Resist of insul. mat to abnormal heat/fire by internal elect. effects  10.2.4 Resistance to ultra-violet (UV) radiation  10.2.5 Lifting  Obes not apply, since the entrie svirtchgear needs to be evaluated.  10.2.5 Exercitions  Meets the product standard's requirements.  10.2.6 Mechanical impact  Does not apply, since the entrie svirtchgear needs to be evaluated.  10.2.7 Rescriptions  Meets the product standard's requirements.  10.3 Degree of protection of assemblies  Does not apply, since the entrie svirtchgear 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 entrie svirtchgear needs to be evaluated.  10.6 Clearances and creepage distances  Meets the product standard's requirements.  10.8 Protection against electric	Assigned motor power at 575/600 V, 60 Hz, 3-phase	75 HP
In Al Number of auxiliary contacts (change-over contacts)  Number of auxiliary contacts (normally closed contacts)  Actuator  Actuator Other  Actuator Other  Actuator Other  Actuator Other  Actuator Other  Cacinator Pe  Design verification  Equipment heat dissipation, current-dependent Pvid Other  Heat dissipation, current-dependent Pvid Other  Heat dissipation per pole, current-dependent Pvid Other  Rated operational current for specified heat dissipation (nurrent-dependent Pvid Other  Rated operational current for specified heat dissipation (in) 100 A  Static heat dissipation, concurrent-dependent Pvid Other  Rated operational current for specified heat dissipation (in) 100 A  Static heat dissipation, expone-current-dependent Pvid Other  Rated operational current for specified heat dissipation (in) 100 A  Static heat dissipation, one-current-dependent Pvid Other  Rated operational current for specified heat dissipation (in) 100 A  Static heat dissipation, one-current-dependent Pvid Other  Rated operational current for specified heat dissipation (in) 100 A  Static heat dissipation, one-current-dependent Pvid Other  Rated operational current for specified heat dissipation (in) 100 A  Static heat dissipation, one-current-dependent Pvid Other  Rated operation of thermal stability of enclosures  Meets the product standard's requirements.  102.31 Verification of thermal stability of enclosures  Meets the product standard's requirements.  102.22 Verification of resistance of insulating material elect. effects  Meets the product standard's requirements.  102.23 Event verification of resistance of insulating material elect. effects  Meets the product standard's requirements.  102.24 Descriptions  Meets the product standard's requirements.  102.25 Lifting  Does not apply, since the entire switchpear needs to be evaluated.  102.25 Lifting of protection of assemblies  103 Protection against electric shock.  Does not apply, since the entire switchpear needs to be evaluated.  Does not apply, since the entire switchpear nee	Contacts	
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Actuator Color Actuator Other Actuator style Other Oth	Number of auxiliary contacts (change-over contacts)	0
Actuator color Actuator rype Design verification Equipment heat dissipation, current-dependent Prid Heat dissipation capacity Pdies OW Heat dissipation per pole, current-dependent Prid Heat dissipation per pole, current-dependent Prid Rated operational current for specified heat dissipation (In) Static heat dissipation, non-current-dependent Prid Rated operational current for specified heat dissipation (In) Static heat dissipation, non-current-dependent Prid OW Heat the product standard's requirements.  10.2.2 Corrosion resistance Meats the product standard's requirements. 10.2.3.1 Verification of thermal stability of enclosures Meats the product standard's requirements. 10.2.3.2 Verification of resistance of insulating materials to normal heat Meats the product standard's requirements. 10.2.4 Resistance to ultra-violet (IVI) radiation UV rasistance only in connection with protective shield. 10.2.5 Illining Des not apply, since the entire switchgear needs to be evaluated. 10.2.7 Inscriptions Meats the product standard's requirements. 10.3 Degree of protection of assemblies Des not apply, since the entire switchgear needs to be evaluated. 10.4 Clearances and creepage distances Meats the product standard's requirements. 10.5 Protection against electric shock Des not apply, since the entire switchgear needs to be evaluated. 10.6 Incorporation of switching devices and components Des not apply, since the entire switchgear needs to be evaluated. 10.7 Internal electrical circuits and connections 10.8 Incorporation of switching devices and components Des not apply, since the entire switchgear needs to be evaluated. 10.7 Internal electrical circuits and connections 10.8 Recorporation of switching devices and components 10.9 Internal electrical circuits and connections 10.9 Internal electrical circuits and connections 10.9 Internal electrical circuits and connections 10.1 Short-circuit rating 10.1 Short-circuit rating 10.2 Prover-frequency electric strength 10.3 Impulse withstand voltage 10.4 Is the panel builder's respo	Number of auxiliary contacts (normally closed contacts)	0
Actuator color Actuator type  Design verification  Equipment heat dissipation, current-dependent Pvid  Heat dissipation per pole, current-dependent Pvid  Rated operational current for specified heat dissipation (In)  Retes the product standard's requirements.  Does not apply, since the entire switchgar needs to be evaluated.  Retes the product standard's requirements.  Retes the product standard's requirem	Number of auxiliary contacts (normally open contacts)	0
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Equipment heat dissipation, current-dependent Pvid  Heat dissipation capacity Pdiss  Bett dissipation per pole, current-dependent Pvid  Rated operational current for specified heat dissipation (In)  Static heat dissipation, non-current-dependent Pvid  Rated operational current for specified heat dissipation (In)  102.2 Corrosion resistance  Meets the product standard's requirements.  UV resistance on insulating materials to normal heat  Meets the product standard's requirements.  UV resistance only in connection with protective shield.  UV resistance only in connection with protective shield.  Does not apply, since the entire switchgear needs to be evaluated.  Meets the product standard's requirements.  Does not apply, since the entire switchgear needs to be evaluated.  Meets the product standard's requirements.  Does not apply, since the entire switchgear needs to be evaluated.  Meets the product standard's requirements.  Does not apply, since the entire switchgear needs to be evaluated.  In 6 Incorporation of switching devices and components  Does not apply, since the entire switchgear needs to be evaluated.  In 6 Incorporation of switching devices and components  In 6 Inco	Actuator type	Other
Heat dissipation capacity Pdiss  Heat dissipation per pole, current-dependent Pvid  Rated operational current for specified heat dissipation (In)  Static heat dissipation, non-current-dependent Pvs  OW  OW  102.2 Corrosion resistance  Meets the product standard's requirements.  102.3.1 Verification of thermal stability of enclosures  Meets the product standard's requirements.  102.3.2 Verification of resistance of insulating materials to normal heat  Meets the product standard's requirements.  102.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects  Meets the product standard's requirements.  102.4 Resistance to ultra-violet (UV) radiation  UV resistance only in connection with protective shield.  Does not apply, since the entire switchgear needs to be evaluated.  102.5 Lifting  Does not apply, since the entire switchgear needs to be evaluated.  102.7 Inscriptions  Meets the product standard's requirements.  103.0 Egree of protection of assemblies  Does not apply, since the entire switchgear needs to be evaluated.  104.1 Clearances and creepage distances  Meets the product standard's requirements.  105.6 Incorporation of switching devices and components  Does not apply, since the entire switchgear needs to be evaluated.  106.6 Incorporation of switching devices and components  Does not apply, since the entire switchgear needs to be evaluated.  107.1 Internal electric of circuits and connections  Is the panel builder's responsibility.  108.2 Power-frequency electric strength  Is the panel builder's responsibility.  109.3 Inspect withstand voltage  Is the panel builder's responsibility.  109.4 Testing of enclosures made of insulating material  10.10 Temperature rise  The panel builder's responsibility.  109.1 Electromagnetic compatibility  109.1 Electromagnetic compatibility  109.1 Electromagnetic compatibility  109.1	Design verification	
Heat dissipation per pole, current-dependent Pvid Rated operational current for specified heat dissipation (In)  Static heat dissipation, non-current-dependent Pvs  0W  10.22 Corrosion resistance 10.2.3.1 Verification of thermal stability of enclosures 10.2.3.2 Verification of thermal stability of enclosures 10.2.3.2 Verification of resistance of insulating materials to normal heat 10.2.3.2 Verification of resistance of insulating materials to normal heat 10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects 10.2.4 Resistance to ultra-violet (UV) radiation 10.2.5 Lifting 10.2.5 Lifting 10.2.5 Lifting 10.2.6 Mechanical impact 10.2.7 Inscriptions 10.3 Degree of protection of assemblies 10.3 Degree of protection of assemblies 10.3 Degree of protection of assemblies 10.4 Clearances and creepage distances 10.5 Protection against electric shock 10.5 Protection against electric shock 10.6 Incorporation of switching devices and components 10.5 Protection in for external conductors 10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9 Power-frequency electric strength 10.9.4 Testing of enclosures made of insulating material 10.9.1 Temperature rise 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.12 Electromagnetic compatibility 10.13 Mechanical function 10.13 Mechanical function 10.13 Mechanical function 10.14 Mechanical function 10.15 The device meets the requirements provided the information in the instruction	Equipment heat dissipation, current-dependent Pvid	0 W
Rated operational current for specified heat dissipation (In)  Static heat dissipation, non-current-dependent Pvs  0 W  10.22 Corrosion resistance  Meets the product standard's requirements.  10.2.3.1 Verification of thermal stability of enclosures  Meets the product standard's requirements.  10.2.3.3 Resists, of insul, mat, to abnormal heat/fire by internal elect, effects  Meets the product standard's requirements.  10.2.3 Resistance to ultra-violat (IV) radiation  10.2.5 Lifting  Does not apply, since the entire switchgear needs to be evaluated.  10.2.5 Inscriptions  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.  10.9.2 Power-frequency electric strength  Is the panel builder's responsibility.  10.9.4 Testing of enclosures made of insulating material  10.10 Temperature rise  The panel builder's responsibility.  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	Heat dissipation capacity Pdiss	0 W
Static heat dissipation, non-current-dependent Pvs  10.2.2 Corrosion resistance  10.2.3.1 Verification of thermal stability of enclosures  10.2.3.2 Verification of resistance of insulating materials to normal heat  10.2.3.3 Resists. of insul. mat. to abnormal heat/fire by internal elect. effects  10.2.4 Resistance to ultra-violet (UV) radiation  10.2.5 Lifting  10.2.5 Lifting  10.2.5 Lifting  10.2.7 Inscriptions  10.2.7 Inscriptions  10.3 Degree of protection of assemblies  10.3 Degree of protection of assemblies  10.4 Clearances and creepage distances  10.5 Protection against electric shock  10.6 Incorporation of switching devices and components  10.7 Internal electrical circuits and connections  10.8 Connections for external conductors  10.9.2 Power-frequency electric strength  10.9.3 Impulse withstand voltage  10.9.1 Testing of enclosures made of insulating material  10.10 Temperature rise  10.11 Short-circuit rating  10.13 Mechanical function  10.10 Electromagnetic compatibility  10.10 Step and builder's responsibility.  10.10 Temperature rise  10.10 Step and builder's responsibility.  10.11 Short-circuit rating  10.12 Electromagnetic compatibility  10.13 Mechanical function  10.13 Mechanical function  10.14 Mechanical function  10.15 Mechanical function  10.16 The device meets the requirements.  10.17 The device meets the product standard's requirements.  10.18 Connections of external conductors  10.19 Legendary is responsibility.  10.10 Temperature rise  10.10 Temperature rise  10.11 Short-circuit rating  10.12 Electromagnetic compatibility  10.13 Mechanical function  10.14 Mechanical function  10.15 Mechanical function  10.16 Mere requirements, provided the information in the instruction	Heat dissipation per pole, current-dependent Pvid	7.5 W
10.2.2 Corrosion resistance  10.2.3.1 Verification of thermal stability of enclosures  10.2.3.2 Verification of thermal stability of enclosures  10.2.3.2 Verification of resistance of insulating materials to normal heat  10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects  10.2.4 Resistance to ultra-violet (UV) radiation  10.2.5 Lifting  10.2.6 Mechanical impact  10.2.7 Inscriptions  10.3 Dees not apply, since the entire switchgear needs to be evaluated.  10.4 Clearances and creepage distances  10.5 Protection of assemblies  10.5 Protection against electric shock  10.6 Incorporation of switching devices and components  10.7 Internal electrical circuits and connections  10.8 Connections for external conductors  10.9 Power-frequency electric strength  10.9.1 Testing of enclosures made of insulating material  10.9.4 Testing of enclosures made of insulating material  10.10 Temperature rise  10.11 Short-circuit rating  10.12 Electromagnetic compatibility  10.13 Mechanical function  Meets the product standard's requirements.  Meets the product standard's requirements.  Does not apply, since the entire switchgear needs to be evaluated.  Meets the product standard's requirements.  Does not apply, since the entire switchgear needs to be evaluated.  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  10.8 Connections for external conductors  10.8 the panel builder's responsibility.  10.9.9 Power-frequency electric strength  10.9.1 Testing of enclosures made of insulating material  10.9.4 Testing of enclosures made of insulating material  10.10 Temperature rise  The panel builder's responsibility.  10.11 Short-circuit rating  10.12 Electromagnetic compatibility  10.13 Mechanical function  The device meets the requirements, provided the information in the instruction	Rated operational current for specified heat dissipation (In)	100 A
10.2.3.1 Verification of thermal stability of enclosures 10.2.3.2 Verification of resistance of insulating materials to normal heat 10.2.3.2 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects 10.2.4 Resistance to ultra-violet (UV) radiation 10.2.5 Lifting 10.2.6 Mechanical impact 10.2.7 Inscriptions 10.3.2 Degree of protection of assemblies 10.4 Clearances and creepage distances 10.5 Protection against electric shock 10.6 Incorporation of switching devices and components 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9 Power-frequency electric strength 10.9.2 Power-frequency electric strength 10.9.3 Impulse withstand voltage 10.9.4 Testing of enclosures made of insulating material 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function 10.14 Meets the product standard's requirements. 10.2 Versistance only in connection whith protective shield. 10.4 Clearances and creepage distances 10.5 Protection against electric shock 10.6 Incorporation of switching devices and components 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9 Power-frequency electric strength 10.9 Power-frequency electric strength 10.9 In the panel builder's responsibility. 10.9 In the panel builder's responsibility. 10.9 In the panel builder's responsibility. 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function 10.13 Mechanical function 10.14 Mechanical function 10.15 Mechanical function 10.16 Meets the product standard's requirements. 10.17 Meets the product standard's requirements. 10.18 Meets the product standard's requirements. 10.19 Meets the product standard's requirements. 10.10 Temperature rise 10.11 Sho	Static heat dissipation, non-current-dependent Pvs	0 W
10.2.32 Verification of resistance of insulating materials to normal heat 10.2.33 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects 10.2.4 Resistance to ultra-violet (UV) radiation 10.2.5 Lifting 10.2.6 Mechanical impact 10.2.6 Mechanical impact 10.2.7 Inscriptions 10.2.7 Inscriptions 10.3 Degree of protection of assemblies 10.3 Degree of protection of assemblies 10.4 Clearances and creepage distances 10.5 Protection against electric shock 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9 Power-frequency electric strength 10.9.1 By a panel builder's responsibility. 10.9.2 Power-frequency electric strength 10.9.4 Testing of enclosures made of insulating material 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function 10.14 Meets the product standard's requirements. 10.15 Protection against electric shock 10.16 Incorporation of switching devices and components 10.17 Internal electrical circuits and connections 10.18 the panel builder's responsibility. 10.19 Expense builder's responsibility. 10.19 The panel builder's responsibility. 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function 10.13 Mechanical function 10.14 Mechanical function 10.15 Mechanical function 10.16 Mechanical function 10.17 Mechanical function 10.18 Mechanical function 10.18 Mechanical function	10.2.2 Corrosion resistance	Meets the product standard's requirements.
10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects  10.2.4 Resistance to ultra-violet (UV) radiation  10.2.5 Lifting  10.2.6 Mechanical impact  10.2.6 Mechanical impact  10.2.7 Inscriptions  10.3 Degree of protection of assemblies  10.3 Degree of protection of assemblies  10.4 Clearances and creepage distances  10.5 Protection against electric shock  10.6 Incorporation of switching devices and components  10.7 Internal electrical circuits and connections  10.8 Connections for external conductors  10.9 Power-frequency electric strength  10.9.1 Testing of enclosures made of insulating material  10.10 Temperature rise  10.11 Short-circuit rating  10.12 Electromagnetic compatibility  10.13 Mechanical function  Meets the product standard's requirements.  Does not apply, since the entire switchgear needs to be evaluated.  Does not apply, since the entire switchgear needs to be evaluated.  Does not apply, since the entire switchgear needs to be evaluated.  Is the panel builder's responsibility.  In the devices we the requirements, provided the information in the instruction.  The device meets the requirements, provided the information in the instruction.	10.2.3.1 Verification of thermal stability of enclosures	Meets the product standard's requirements.
10.2.4 Resistance to ultra-violet (UV) radiation  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.  10.9.2 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  10.10 Temperature rise  The panel builder's responsibility.  10.10 Temperature rise  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.	10.2.3.2 Verification of resistance of insulating materials to normal heat	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.  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.  10.9.2 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's responsibility. The specifications for the switchgear must be observed.  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	10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects	Meets the product standard's requirements.
10.2.6 Mechanical impact  10.2.7 Inscriptions  Meets the product standard's requirements.  10.3 Degree of protection of assemblies  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  10.7 Internal electrical circuits and connections  10.8 Connections for external conductors  10.9.2 Power-frequency electric strength  10.9.3 Impulse withstand voltage  10.9.4 Testing of enclosures made of insulating material  10.10 Temperature rise  10.11 Short-circuit rating  10.12 Electromagnetic compatibility  10.13 Mechanical function  The device meets the requirements, provided the information in the instruction	10.2.4 Resistance to ultra-violet (UV) radiation	UV resistance only in connection with protective shield.
10.27 Inscriptions  10.3 Degree of protection of assemblies  10.4 Clearances and creepage distances  Meets the product standard's requirements.  10.5 Protection against electric shock  10.6 Incorporation of switching devices and components  10.7 Internal electrical circuits and connections  10.8 Connections for external conductors  10.9 Power-frequency electric strength  10.9.3 Impulse withstand voltage  10.9.4 Testing of enclosures made of insulating material  10.10 Temperature rise  10.11 Short-circuit rating  10.12 Electromagnetic compatibility  10.13 Mechanical function  Meets the product standard's requirements.  Does not apply, since the entire switchgear needs to be evaluated.  Does not apply, since the entire switchgear needs to be evaluated.  Is the panel builder's responsibility.  Is the panel builder's responsibility.  Is the panel builder's responsibility.  In panel builder's responsibility. The specifications for the switchgear must be observed.  In the panel builder's responsibility. The specifications for the switchgear must be observed.  In the device meets the requirements, provided the information in the instruction	10.2.5 Lifting	Does not apply, since the entire switchgear needs to be evaluated.
10.3 Degree of protection of assemblies  10.4 Clearances and creepage distances  Meets the product standard's requirements.  10.5 Protection against electric shock  10.6 Incorporation of switching devices and components  10.7 Internal electrical circuits and connections  10.8 Connections for external conductors  10.9 Power-frequency electric strength  10.9.3 Impulse withstand voltage  10.9.4 Testing of enclosures made of insulating material  10.10 Temperature rise  10.10 Temperature rise  10.11 Short-circuit rating  10.12 Electromagnetic compatibility  10.13 Mechanical function  10.14 Mechanical function  Does not apply, since the entire switchgear needs to be evaluated.  Does not apply, since the entire switchgear needs to be evaluated.  Does not apply, since the entire switchgear needs to be evaluated.  Is the panel builder's responsibility.  The specifications for the switchgear must be observed.  Is the panel builder's responsibility. The specifications for the switchgear must be observed.	10.2.6 Mechanical impact	Does not apply, since the entire switchgear needs to be evaluated.
10.4 Clearances and creepage distances  10.5 Protection against electric shock  10.6 Incorporation of switching devices and components  10.7 Internal electrical circuits and connections  10.8 Connections for external conductors  10.9 Power-frequency electric strength  10.9.1 Testing of enclosures made of insulating material  10.10 Temperature rise  10.11 Short-circuit rating  10.12 Electromagnetic compatibility  10.13 Mechanical function  Meets the product standard's requirements.  Does not apply, since the entire switchgear needs to be evaluated.  10.20 Pows not apply, since the entire switchgear needs to be evaluated.  Is the panel builder's responsibility.  Is the panel builder's responsibility. The specifications for the switchgear must be observed.  Is the panel builder's responsibility. The specifications for the switchgear must be observed.  The device meets the requirements, provided the information in the instruction	10.2.7 Inscriptions	Meets the product standard's requirements.
Does not apply, since the entire switchgear needs to be evaluated.  10.6 Incorporation of switching devices and components  10.7 Internal electrical circuits and connections  10.8 Connections for external conductors  10.9.2 Power-frequency electric strength  10.9.3 Impulse withstand voltage  10.9.4 Testing of enclosures made of insulating material  10.10 Temperature rise  10.11 Short-circuit rating  10.12 Electromagnetic compatibility  10.13 Mechanical function  Does not apply, since the entire switchgear needs to be evaluated.  10 be evaluated.  10 be not apply, since the entire switchgear needs to be evaluated.  10 be evaluated.  10 be not apply, since the entire switchgear needs to be evaluated.  10 the panel builder's responsibility.  10 the panel builder's responsibility.  11 the panel builder's responsibility.  12 the panel builder is responsibility.  13 the panel builder is responsibility. The specifications for the switchgear must be observed.  14 the panel builder's responsibility. The specifications for the switchgear must be observed.  15 the panel builder's responsibility. The specifications for the switchgear must be observed.  16 the panel builder's responsibility. The specifications for the switchgear must be observed.  17 the device meets the requirements, provided the information in the instruction	10.3 Degree of protection of assemblies	Does not apply, since the entire switchgear needs to be evaluated.
10.6 Incorporation of switching devices and components  10.7 Internal electrical circuits and connections  10.8 Connections for external conductors  10.9.2 Power-frequency electric strength  10.9.3 Impulse withstand voltage  10.9.4 Testing of enclosures made of insulating material  10.10 Temperature rise  10.11 Short-circuit rating  10.12 Electromagnetic compatibility  10.13 Mechanical function  10.13 Mechanical function  Does not apply, since the entire switchgear needs to be evaluated.  Is the panel builder's responsibility.  Is the panel builder's responsibility.  Is the panel builder's responsibility.  The panel builder's responsibility.  Is the panel builder is responsibility.  Is the panel builder is responsibility.  Is the panel builder's responsibility.  The panel builder's responsibility. The specifications for the switchgear must be observed.  Is the panel builder's responsibility. The specifications for the switchgear must be observed.  The device meets the requirements, provided the information in the instruction	10.4 Clearances and creepage distances	Meets the product standard's requirements.
10.7 Internal electrical circuits and connections  1s the panel builder's responsibility.  10.8 Connections for external conductors  1s the panel builder's responsibility.  10.9.2 Power-frequency electric strength  1s the panel builder's responsibility.  10.9.3 Impulse withstand voltage  1s the panel builder's responsibility.  1nus the panel builder's responsibility. The specifications for the switchgear must be observed.  1nus the panel builder's responsibility. The specifications for the switchgear must be observed.  1nus the panel builder's responsibility. The specifications for the switchgear must be observed.  1nus the panel builder's responsibility. The specifications for the switchgear must be observed.  1nus the panel builder's responsibility. The specifications for the switchgear must be observed.  1nus the panel builder's responsibility. The specifications for the switchgear must be observed.	10.5 Protection against electric shock	Does not apply, since the entire switchgear needs to be evaluated.
10.8 Connections for external conductors  10.9.2 Power-frequency electric strength  10.9.3 Impulse withstand voltage  10.9.4 Testing of enclosures made of insulating material  10.10 Temperature rise  10.11 Short-circuit rating  10.12 Electromagnetic compatibility  10.13 Mechanical function  Is the panel builder's responsibility.  Is the panel builder's responsibility.  The panel builder is responsibility in 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.  Is the panel builder's responsibility. The specifications for the switchgear must be observed.  The device meets the requirements, provided the information in the instruction	10.6 Incorporation of switching devices and components	Does not apply, since the entire switchgear needs to be evaluated.
10.9.2 Power-frequency electric strength  10.9.3 Impulse withstand voltage  10.9.4 Testing of enclosures made of insulating material  10.10 Temperature rise  10.11 Short-circuit rating  10.12 Electromagnetic compatibility  10.13 Mechanical function  10.13 Mechanical function  10.14 Is the panel builder's responsibility. The specifications for the switchgear must be observed.  10.15 Is the panel builder's responsibility. The specifications for the switchgear must be observed.  10.15 Is the panel builder's responsibility. The specifications for the switchgear must be observed.  10.16 Is the panel builder's responsibility. The specifications for the switchgear must be observed.  10.17 In device meets the requirements, provided the information in the instruction	10.7 Internal electrical circuits and connections	Is the panel builder's responsibility.
10.9.3 Impulse withstand voltage  10.9.4 Testing of enclosures made of insulating material  10.10 Temperature rise  10.11 Short-circuit rating  10.12 Electromagnetic compatibility  10.13 Mechanical function  Is the panel builder's responsibility.  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.  In the panel builder's responsibility. The specifications for the switchgear must be observed.  The device meets the requirements, provided the information in the instruction	10.8 Connections for external conductors	Is the panel builder's responsibility.
10.9.4 Testing of enclosures made of insulating material  10.10 Temperature rise  10.11 Short-circuit rating  10.12 Electromagnetic compatibility  10.13 Mechanical function  10.13 Mechanical function  10.14 Testing of enclosures made of insulating material  15 the panel builder's responsibility.  16 panel builder is responsibility. The specifications for the switchgear must be observed.  17 the panel builder's responsibility. The specifications for the switchgear must be observed.  18 the panel builder's responsibility. The specifications for the switchgear must be observed.  19 the panel builder's responsibility. The specifications for the switchgear must be observed.  10 the device meets the requirements, provided the information in the instruction	10.9.2 Power-frequency electric strength	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	10.9.3 Impulse withstand voltage	Is the panel builder's responsibility.
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	10.9.4 Testing of enclosures made of insulating material	Is the panel builder's responsibility.
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	10.10 Temperature rise	
observed.  10.13 Mechanical function  The device meets the requirements, provided the information in the instruction	10.11 Short-circuit rating	, , , ,
	10.12 Electromagnetic compatibility	
	10.13 Mechanical function	

## **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	No
Version as safety switch	No
Version as emergency stop installation	No
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	100
Rated permanent current at AC-23, 400 V	А	100
Rated permanent current at AC-21, 400 V	A	100
Rated operation power at AC-3, 400 V	kW	37
Rated short-time withstand current lcw	kA	2
Rated operation power at AC-23, 400 V	kW	55
Switching power at 400 V	kW	55
Conditioned rated short-circuit current Iq	kA	80
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		No
Suitable for intermediate mounting		Yes
Colour control element		Other
Type of control element		Other
Interlockable		No
Type of electrical connection of main circuit		Screw connection
With pre-assembled cabling		No
Degree of protection (IP), front side		IP65
Degree of protection (NEMA)		1
Width	mm	72
Height	mm	84
Depth	mm	82
Width in number of modular spacings		