Main switch, P1, 32 A, surface mounting, 3 pole  $\pm$  N, Emergency switching off function, With red rotary handle and yellow locking ring, Lockable in the 0 (Off) position



Part no. P1-32/I2/SVB/N

207319

**EL Number** 1417166

(Norway)

(Norway)	
General specifications	
Product name	Eaton Moeller® series P1 Main switch
Part no.	P1-32/I2/SVB/N
EAN	4015082073190
Product Length/Depth	115 millimetre
Product height	180 millimetre
Product width	100 millimetre
Product weight	0.513 kilogram
Compliances	Contact Manufacturer
Certifications	UL 60947-4-1 CSA File No.: 012528 VDE 0660 CSA-C22.2 No. 94 CSA CSA-C22.2 No. 60947-4-1-14 UL UL Category Control No.: NLRV CE CSA Class No.: 3211-05 IEC/EN 60204 UL File No.: E36332 IEC/EN 60947 IEC/EN 60947 UL CSA
Product Tradename	P1
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 emergency stop installation Version as maintenance-/service switch Version as main switch
Fitted with:	Red rotary handle and yellow locking ring
Functions	Emergency switching off function Interlockable
Locking facility	Lockable in the 0 (Off) position
Number of poles	4
General information	
Accessories	Auxiliary contact fitted by user.
Degree of protection	NEMA 12
Degree of protection (front side)	IP65
Lifespan, mechanical	300,000 Operations
Mounting method	Surface 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	Ground mounting Branch circuits, suitable as motor disconnect, (UL/CSA)

Switching angle	90 °
Climatic environmental conditions	
Ambient operating temperature - min	-25 °C
Ambient operating temperature - max	40 °C
Ambient operating temperature (enclosed) - min	-25 °C
Ambient operating temperature (enclosed) - max	40 °C
Climatic proofing	Damp heat, cyclic, to IEC 60068-2-30
Simulto proving	Damp heat, constant, to IEC 60068-2-78
Terminal capacities	
Terminal capacity	1 x {1 - 4} mm², flexible with ferrules to DIN 46228 1 x (1.5 - 6) mm², solid or stranded 2 x (1.5 - 6) mm², solid or stranded 2 x (1 - 4) mm², flexible with ferrules to DIN 46228
Screw size	M4, Terminal screw
Tightening torque	1.6 Nm, Screw terminals 14.1 lb-in, Screw terminals
Electrical rating	
Rated breaking capacity at 220/230 V (cos phi to IEC 60947-3)	260 A
Rated breaking capacity at 400/415 V (cos phi to IEC 60947-3)	300 A
Rated breaking capacity at 500 V (cos phi to IEC 60947-3)	290 A
Rated breaking capacity at 660/690 V (cos phi to IEC 60947-3)	250 A
Rated operational current (Ie) at AC-3, 220 V, 230 V, 240 V	26.4 A
Rated operational current (Ie) at AC-3, 380 V, 400 V, 415 V	26.4 A
Rated operational current (Ie) at AC-3, 500 V	23.4 A
Rated operational current (Ie) at AC-3, 660 V, 690 V	14.7 A
Rated operational current (Ie) at AC-21, 440 V	32 A
Rated operational current (Ie) at AC-23A, 230 V	32 A
Rated operational current (le) at AC-23A, 400 V, 415 V	32 A
Rated operational current (Ie) at AC-23A, 500 V	30 A
Rated operational current (Ie) at AC-23A, 690 V	19.8 A
Rated operational current (Ie) at DC-1, load-break switches I/r = 1 ms	32 A
Rated operational current (le) at DC-23A, 24 V	25 A
Rated operational current (le) at DC-23A, 48 V	25 A
Rated operational current (Ie) at DC-23A, 60 V	25 A
Rated operational current (Ie) at DC-23A, 120 V	12 A
Rated operational power at AC-3, 380/400 V, 50 Hz	13 kW
Rated operational power at AC-3, 415 V, 50 Hz	13 kW
Rated operational power at AC-3, 500 V, 50 Hz	18.5 kW
Rated operational power at AC-3, 690 V, 50 Hz	15 kW
Rated operational power at AC-23A, 220/230 V, 50 Hz	7.5 kW
Rated operational power at AC-23A, 400 V, 50 Hz	15 kW
Rated operational power at AC-23A, 500 V, 50 Hz	18.5 kW
Rated operational power at AC-23A, 690 V, 50 Hz	15 kW
Rated operational voltage (Ue) at AC - max	690 V
Rated uninterrupted current (Iu)	32 A
Uninterrupted current	Rated uninterrupted current lu is specified for max. cross-section.
Short-circuit rating	
Rated conditional short-circuit current (Iq)	80 kA
Rated short-time withstand current (Icw)	640 A, Contacts, 1 second 0.64 kA
Short-circuit protection rating	50 A gG/gL, Fuse, Contacts
Switching capacity	
Load rating	2 x l# (with intermittent operation class 12, 25 % duty factor) 1.6 x l# (with intermittent operation class 12, 40 % duty factor) 1.3 x l# (with intermittent operation class 12, 60 % 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

Centrol circuit reliability Number of auxiliary contacts (change-over contacts)  Number of auxiliary contacts (normally open contacts)  Number of auxiliary contacts (normally open contacts)  Actuator  Actuator of Actuator of auxiliary contacts (normally open contacts)  Actuator of Actuator of auxiliary contacts (normally open contacts)  Actuator of Bed  Actuator of Bed  Actuator type  Design verification  Equipment hear dissipation, current-dependent Pvid  Hear dissipation capacity Pdiss  OW  Hear dissipation or pole, current-dependent Pvid  Hear dissipation or pole, current-dependent Pvid  Rated operational current for specified heat dissipation (n)  State hear dissipation, one-current-dependent Pvi  10.2.2 Corrosion resistence of insulating materials to normal heat  10.2.3.1 Verification of thermal stability of enclosures  10.2.3.2 Verification of thermal stability of enclosures  10.2.3.2 Resist of insul. mat. to abnormal heatfire by internal elect. effects  10.2.4 Resistance to ultra-violet (UV) rediation  10.2.5 Uffice  10.2.5 Uffice  10.2.5 Uffice  10.2.6 Mechanical impact  10.2.7 Inscriptions  10.8 Mechanical impact  10.9 Does not apply, since the entire switchgear needs to be evaluated.  10.2.7 Inscriptions  10.8 Connections or external conductors  10.9 Tempero of protection of assemblies  10.9 Does not apply, since the entire switchgear needs to be evaluated.  10.7 Internal electrical circuits and components  10.8 Connections or external conductors  10.9 Tempero of protection of assemblies  10.9 Tempero of protection of seventhing devices and components  10.9 Temperature rise  10.9 Temperature ris	Number of contacts in series at DC-23A, 120 V	3
Contracts  Coerrol circuit reliability  I failure per 100,000 evitching operations statistically determined, at 24 V.D., 10 m.Al  Number of auxiliary contacts (normally closed contacts)  Number of auxiliary contacts (normally closed contacts)  Actuator color  Actuator type  Door coupling rotary drive  Equipment bead dissipation, current-dependent Pvid  Head dissipation per pube, current-dependent Pvid  Head dissipation per pube, current-dependent Pvid  Head dissipation non-current-dependent Pvid  1.8 W  Head dissipation non-current-dependent Pvid  Head dissipation non-current-dependent Pvid  1.8 W  Head dissipation non-current-dependent Pvid  1.8 W  State closed dissipation non-current-dependent Pvid  1.9 Z.A  State closed dissipation non-current-dependent Pvid  1.9 Z.A  State closed dissipation non-current-dependent Pvid  1.0 Z.A  State closed dissipation	Rated making capacity up to 690 V (cos phi to IEC/EN 60947-3)	320 A
Control 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 eigen contacts)  Number of auxiliary contacts (normally eigen contacts)  Red  Actuator  Actuator  Actuator  Actuator or  Actuator or  Actuator or  Actuator or  Actuator or  Eiginner the act dissipation, current-dependent Pvid  Net dissipation capacity Pdiss  OW  Heat dissipation per pole, current-dependent Pvid  Heat dissipation per pole, current-dependent Pvid  State has dissipation, non-current-dependent Pvid  18. W  Rated operational current for specified heat dissipation (in)  10.2.2 Corrosion resistance  Meets the product standard's requirements.  Meets the product standard's requirements.  10.2.3 Resistance to ultra-violnt (UV) radiation  10.2.2 Using or dissipation or dissipation geneticals to normal heat (IV) and actuation or dissipation paralerials to normal heat (IV) radiation  10.2.2 Using or dissipation paralerials to normal heat (IV) radiation  10.2.2 Using or dissipation or	Voltage per contact pair in series	60 V
Number of auxiliary contacts (change-over contacts)  Number of auxiliary contacts (normally open contacts)  Actuator  Actuator of Actuator of Actuator (or auxiliary contacts (normally open contacts)  Actuator of Actuator (or Actuator (or auxiliary contacts (normally open contacts)  Actuator (or Actuator (or Actuator (or auxiliary contacts (normally open contacts)  Actuator (or Design verification  Equipment heat dissipation, current-dependent Pvid  Heat dissipation capacity Pdiss  Actuator (or auxiliary contacts (auxiliary contacts)  Read operational current for specified heat dissipation (n)  Static heat dissipation, current-dependent Pvid  Actuator (or auxiliary contacts)  Read operational current for specified heat dissipation (n)  Static heat dissipation, one-prole, current-dependent Pvid  1.8 W  Read operational current for specified heat dissipation (n)  Static heat dissipation, one-prole, current-dependent Pvid  1.0.2.2 Cornsion 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  10.2.3.2 Verification of resistance of insulating materials to normal heat  10.2.4 Resistance to ultra-violet (UV) radiation  10.2.5 Lifting  Does not apply, since the entire switchgear needs to be evaluated.  10.2.7 Inscriptions  Meets the product standard's requirements.  10.3.1 Degree of protection of assemblies  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.  10.5 Internal electrical circuits and connections  10.5 Internal electrical circuits and connections  10.5 Roceronoration of witching devices and components  10.5 Roceronoration of witching devices an	Contacts	
Number of auxiliary contacts (normally closed contacts)  Number of auxiliary contacts (normally open contacts)  Actuator  Red  Actuator type  Does coupling rotary drive  Design verification  Equipment heat dissipation, current-dependent Pvid  Heat dissipation per pole, current-dependent Pvid  1.8 W  Heat dissipation per pole, current-dependent Pvid  1.8 W  Rated operational current for specified heat dissipation (in)  State heat dissipation, non-current-dependent Pvid  1.8 W  Ret dissipation, non-current-dependent Pvis  1.2 2.4 Corrosion resistance  Meets the product standard's requirements.  10.2.3 I Verification of tresistance of insulating materials to normal heat  10.2.3 I Verification of resistance of insulating materials to normal heat  10.2.4 Resistance to ture-violet (UV) redistion  10.2.5 Lifting  Does not apply, since the entrie switchgear needs to be availuated.  10.2.7 Inscriptions  Meets the product standard's requirements.  10.2.8 Deeper of protection of assembles  Does not apply, since the entrie switchgear needs to be availuated.  10.2.7 Inscriptions  Meets the product standard's requirements.  10.3 Deeper of protection of assembles  Does not apply, since the entrie 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 entrie switchgear needs to be evaluated.  10.6 Incorporation of switching devices and components  10.7 Internal electrical circuits and connections  10.8 Deeper of protection of assembles  Does not apply, since the entrie switchgear needs to be evaluated.  10.9 Internal electrical circuits and connections  10.0 Internal electrical circuits and conne	Control circuit reliability	· · · · · · · · · · · · · · · · · · ·
Actuator of audilary contacts (normally open contacts)  Actuator color Actuator color Actuator color Actuator cype Door coupling rotary drive  Sesign verification  Equipment heat dissipation, current-dependent Pvid Heat dissipation capacity Pdiss UN Heat dissipation per pole, current-dependent Pvid Heat dissipation per pole, current-dependent Pvid Heat dissipation per pole, current-dependent Pvid Heat dissipation non-current or specified heat dissipation (In) Static heat dissipation, non-current-dependent Pvis UN Static heat dissipation, non-current-dependent Pvis UN Heat dissipation on current-dependent Pvis UN Heat dissipation of thermal stability of enclosures UN Heat the product standard's requirements. UN Heat the product standard's requirements. UN Heat the product standard's requirements. UN Listing	Number of auxiliary contacts (change-over contacts)	0
Actuator color Actuator type Design verification Equipment heat dissipation, current-dependent Pvid Heat dissipation, par polo, current-dependent Pvid Heat dissipation par polo, current-dependent Pvid Heat dissipation, non-current-dependent Pvid Heat tissipation of sequirements.  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.  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.  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.  In Internal electrical circuits and connections  Is the panel builder's responsibility.  In Spanel	Number of auxiliary contacts (normally closed contacts)	0
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Design verification  Equipment heat dissipation, current-dependent Pvid  Heat dissipation per pole, current-dependent Pvid  Heat dissipation per pole, current-dependent Pvid  Reted operational current for specified heat dissipation (In)  Static heat dissipation, non-current-dependent Pvs  OW  10.2.2 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 thermal stability of enclosures  Meets the product standard's requirements.  102.3.3 Resists, of insul. mat. to abnormal heat/fire by internal elect. effects  102.4 Resistance to ultra-violet (IUV) radiation  102.5 Utiling  Does not apply, since the entire switchgear needs to be evaluated.  102.5 Itiling  Does not apply, since the entire switchgear needs to be evaluated.  102.6 Degree of protection of assemblies  103.0 Begree of protection of assemblies  104.1 Clearances and creepage distances  Meets the product standard's requirements.  105.2 Protection against electric shock  Does not apply, since the entire switchgear needs to be evaluated.  106.1 Clearances and creepage distances  Meets the product standard's requirements.  107.1 Internal electric allocations for external conductors  In the panel builder's responsibility.  108.2 Power-frequency electric shock  Does not apply, since the entire switchgear needs to be evaluated.  109.2 Power-frequency electric shock  Does not apply, since the entire switchgear needs to be evaluated.  109.2 Internal electrical circuits and connections  Is the panel builder's responsibility.  109.3 Impulse withstand voltage  Is the panel builder's responsibility.  109.4 Pasting of enclosures made of insulating material  109.5 Protection against electric shock  The panel builder's responsibility.  109.6 Protection specified the engineering must be observed.  109.1 Short-circuit reting  Let the panel builder's responsibility.  109.1 Short-circuit reting  109.1 Short-circuit reting  Let the panel bu	Actuator	
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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.  10.2.3.2 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  Meets the product standard's requirements.  10.2.4 Resistance to ultra-violat (UV) radiation  10.2.5 Lifting  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  10.7 Internal electrical circuits and connections  Is the panel builder's responsibility.  10.9 Connections for external conductors  Is the panel builder's responsibility.  10.9 A Testing of enclosures made of insulating material  10.11 Short-circuit rating  Is the panel builder's responsibility.  10.11 Short-circuit rating  Is the panel builder's responsibility.  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 Pys  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  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  UV resistance only in connection with protective shield.  10.2.5 Lifting  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.  10.9.4 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.  10.12 Electromagnetic compatibility  Is the panel builder's responsibility. The specifications for the switchgear must b observed.  10.13 Mechanical function  The device meets the requirements, provided the information in the instruction	Heat dissipation per pole, current-dependent Pvid	1.8 W
10.2.2 Corrosion resistance  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  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  10.2.5 Lifting  Does not apply, since the entire switchgear needs to be evaluated.  10.2.7 Inscriptions  Meets the product standard's requirements.  10.2.8 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  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.  10.9.4 Testing of enclosures made of insulating material  10.10 Temperature rise  The panel builder's responsibility.  10.10 Temperature rise  The panel builder's responsibility. The specifications for the switchgear must b observed.  10.11 Short-circuit rating  10.12 Electromagnetic compatibility  Is the panel builder's responsibility. The specifications for the switchgear must b observed.  10.13 Mechanical function  The device meets the requirements, provided the information in the instruction	Rated operational current for specified heat dissipation (In)	32 A
10.2.3.1 Verification of thermal stability of enclosures  10.2.3.2 Verification of resistance of insulating materials to normal heat  10.2.3.3 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  10.3.0 Begree 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  10.9.3 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.  Meets the product standard's requirements.  Weets 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.  Does not apply, since the entire switchgear needs to be evaluated.  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.  10.6 Incorporation of switching devices and components  Does not apply, since the entire switchgear needs to be evaluated.  10.6 Incorporation of switching devices and components  Is the panel builder's responsibility.  10.8 Connections for external conductors  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  10.12 Electromagnetic compatibility  10.13 Mechanical fu	Static heat dissipation, non-current-dependent Pvs	0 W
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 10.2.6 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 10.9.3 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  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 Shopping the entire switchgear needs to be evaluated. 10.9 Shopping the entire switchgear needs to be evaluated. 10.9 Shopping the entire switchgear needs to be evaluated. 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 After shopping the entire switchgear must be observed. 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 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  10.2.5 Lifting  10.2.6 Mechanical impact  10.2.7 Inscriptions  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 Ower-frequency electric strength  10.9 Suppressibility.  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  Weets the product standard's requirements.  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.  Is the panel builder's responsibility.  10.9.1 Temperature rise  The panel builder's responsibility.  10.10 Temperature rise calculation. Eaton will provide heat dissipation data for the devices.  10.11 Short-circuit rating  10.12 Electromagnetic compatibility  10.13 Mechanical function  The device meets the requirements, provided the information in the instruction	10.2.3.1 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  10.2.6 Mechanical impact  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  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  10.9.4 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 Mechanical function  10.15 Protection against electric shock  10.2 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  10.6 Incorporation of switching devices and components  10.6 Incorporation of switching devices and components  10.8 Connections for external conductors  10.9 Power-frequency electric strength  10.9 Is the panel builder's responsibility.  10.9.1 The panel builder's responsibility.  10.10 Temperature rise  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	10.2.3.2 Verification of resistance of insulating materials to normal heat	Meets the product standard's requirements.
10.2.5 Lifting  10.2.6 Mechanical impact  10.2.7 Inscriptions  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  10.9.4 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 Clearances and creepage distances  10.25 Protection against electric shock  10.26 pose not apply, since the entire switchgear needs to be evaluated.  10.5 Protection against electric switching devices and components  10.5 Protection against electric switchgear needs to be evaluated.  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 Is the panel builder's responsibility.  10.9.1 Temperature rise  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 meets the entire switchgear needs to be evaluated.  10.17 Meets the product standard's requirements, provided the information in the instruction of the device meets the requirements, provided the information in the instruction of the device meets the requirements, provided the information in the instruction of the switchgear must be observed.	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  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  The panel builder's responsibility.  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	10.2.4 Resistance to ultra-violet (UV) radiation	UV resistance only in connection with protective shield.
10.27 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.  10.10 Temperature rise  The panel builder's responsibility.  10.10 Temperature rise  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	10.2.5 Lifting	Does not apply, since the entire switchgear needs to be evaluated.
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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  10.9.4 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 be evaluated.  10 the panel builder's responsibility.  11 sthe panel builder's responsibility.  12 sthe panel builder's responsibility.  13 the panel builder's responsibility.  14 the panel builder's responsibility.  15 the panel builder's responsibility.  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.
Does not apply, since the entire switchgear needs to be evaluated.  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.  1s the panel builder's responsibility. The specifications for the switchgear must be observed.  1s the panel builder's responsibility. The specifications for the switchgear must be observed.  1s the panel builder's responsibility. The specifications for the switchgear must be observed.  1s the panel builder's responsibility. The specifications for the switchgear must be observed.  1s the panel builder's responsibility. The specifications for the switchgear must be observed.	10.4 Clearances and creepage distances	Meets the product standard's requirements.
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  10.10 Mechanical function  10.10 Temperature is exponsibility.  10.11 Short-circuits and connections  10.12 Is the panel builder's responsibility. The specifications for the switchgear must be observed.  10.13 Mechanical function  10.14 The device meets the requirements, provided the information in the instruction	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  10.18 the panel builder's responsibility. The specifications for the switchgear must be observed.  10.19 We panel builder's responsibility. The specifications for the switchgear must be observed.  10.11 Short-circuit rating  10.12 Electromagnetic compatibility  10.13 Mechanical function  10.14 Mechanical function  10.15 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.  15 the panel builder's responsibility.  16 the panel builder's responsibility.  17 The panel builder is responsibility for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.  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.  10.11 Short-circuit rating  10.12 Electromagnetic compatibility  10.13 Mechanical function  10.14 The 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  Is the panel builder's responsibility.  10.9.4 Testing of enclosures made of insulating material  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.  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	10.8 Connections for external conductors	Is the panel builder's responsibility.
10.9.4 Testing of enclosures made of insulating material  10.10 Temperature rise  The panel builder's 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 b observed.  10.12 Electromagnetic compatibility  Is the panel builder's responsibility. The specifications for the switchgear must b observed.  10.13 Mechanical function  The device meets the requirements, provided the information in the instruction	· · · ·	· · · · · · · · · · · · · · · · · · ·
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 b observed.  10.12 Electromagnetic compatibility  Is the panel builder's responsibility. The specifications for the switchgear must b observed.  10.13 Mechanical function  The device meets the requirements, provided the information in the instruction	· ·	· · · · · · · · · · · · · · · · · · ·
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observed.  10.13 Mechanical function  The device meets the requirements, provided the information in the instruction	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	

## **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])

[AKI 0000 TO])		
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	32

Rated permanent current at AC-23, 400 V	Α	32
Rated permanent current at AC-21, 400 V	Α	32
Rated operation power at AC-3, 400 V	kW	13
Rated short-time withstand current lcw	kA	0.64
Rated operation power at AC-23, 400 V	kW	15
Switching power at 400 V	kW	15
Conditioned rated short-circuit current Iq	kA	80
Number of poles		4
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		Complete device in housing
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		No
Colour control element		Red
Type of control element		Door coupling rotary drive
Interlockable		Yes
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)		12
Width	mm	100
Height	mm	180
Depth	mm	115
Width in number of modular spacings		