## Main switch, 32 A, surface mounting, 3 pole + N, STOP function, With black rotary handle and locking ring, Lockable in the 0 (Off) position



Part no. J32/B/N 199555

General specifications	
Product name	Eaton J-Range enclosed switch-disconnector
Part no.	J32/B/N
EAN	5027590552066
Product Length/Depth	115 millimetre
	180 millimetre
Product width  Product width	100 millimetre
Product weight	0.447 kilogram
Certifications	VDE 0660
Cerunications	IEC/EN 60947-3 IEC/EN 60947 IEC/EN 60204
Product Tradename	J-Range
Product Type	Enclosed switch-disconnector
Product Sub Type	None
Catalog Notes	Rated Short-time Withstand Current (Icw) for a time of 1 second
Features & Functions	
Features	Version as maintenance-/service switch Version as main switch
Fitted with:	Black rotary handle and locking ring Push-through cable entry diaphragm Assembly sheet screen
Functions	STOP function Interlockable
Locking facility	Lockable in the 0 (Off) position
Number of poles	Three-pole
General information	
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
Product Category	Main switch
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
Climatic environmental conditions	
Ambient operating temperature (enclosed) - min	-25 °C
Ambient operating temperature (enclosed) - max	40 °C
Climatic proofing	Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78
Terminal capacities	
Terminal capacity	$2 \times (1 - 4) \text{ mm}^2$ , flexible with ferrules to DIN 46228 $2 \times (1.5 - 6) \text{ mm}^2$ , solid or stranded $1 \times (1.5 - 10) \text{ mm}^2$ , solid or stranded $1 \times (1 - 4) \text{ mm}^2$ , flexible with ferrules to DIN 46228
Screw size	M4, Terminal screw

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Rated conditional abort-circuit current (Icy)  Rated dant-time withstand current (Icy)  Rated abort-time withstand current (Icy)  Rated abort-time withstand current (Icy)  Switching capacity  Rated making capacity up to 80 V (ces phi to IEC/EN 86947-3)  Voltage per contact pair in series  Rated making capacity up to 80 V (ces phi to IEC/EN 86947-3)  Voltage per contact pair in series  Rated making capacity up to 80 V (ces phi to IEC/EN 86947-3)  Voltage per contact pair in series  Rated making capacity contacts (change-over contacts)  Number of auxiliary contacts (change-over contacts)  Number of auxiliary contacts (normally open contacts)  Number of auxiliary contacts (normally open contacts)  Actuator  Actuator  Actuator  Actuator  Black  Actuator (Correction resistance)  Black  Design verification  10.2.2 Correction resistance  Meets the product standard's requirements.  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 thermal stability of enclosures  10.2.3.3 Resistance to ultra-violet (IUV) radiation  10.2.2.5 Ifficiation of insul. mat. to abnormal heat/fire by internal elect. effects  Meets the product standard's requirements.  10.2.3.3 Resistance to ultra-violet (IUV) radiation  10.2.4 Internal electric should be entire existingear needs to be evaluated.  10.2.5 Internal electric should  10.2.5 Internal electric should  10.2.5 Internal electric should  10.2.6 Internal electric should  10.2.7 Internal electric should  10.2.8 Testing of product standard's requirements.  10.2.9 Protection of assemblies  10.2.9 Internal electric should  10.2.1 Internal electric should  10.3.1 Internal electric should  10.4.2 Internal electric should  10.5.3 Internal electric should  10.5.4 Testing of enclosures and components  10.5.5 Testing of enclosures and of insulating material  10.5.4 Testing of enclosures and of insulating material  10.5.5 Testing of enclosures maded of insulating material  10.5.6 Testing of enclosures and of in		nated diffilterrupted current to is specified for max. cross-section.
Rated short-time withstand current (low)  Short-circuit protection rating  So A gS/gs_Lsus, Contacts  Switching capacity  Rated making capacity up to 800 V (cos phi to IEC/EN 68947-3)  320 A  Voltage per contact pair in series  Contacts  Number of auxiliary contacts (change-over contacts)  Number of auxiliary contacts (change-over contacts)  Number of auxiliary contacts (normally desed contacts)  Number of auxiliary contacts (normally desed contacts)  O   Actuator  Actuator color  Actuator color  Actuator color  Actuator or one series auxiliary contacts (normally open contacts)  10.22 Corresion resistance  10.23 Perintection  10.22 Corresion of institution of thorous stability of enclosures  10.23.3 Resist of sest, must to abnormal heavily to by internal elect. effects  10.23.3 Resistance on Urra-violent (UV) radiation  10.24 Series on urta-violent (UV) radiation  10.25 Lifting  10.26 Abechanical impact  10.26 Abechanical impact  10.27 Inscriptions  10.28 Protection of assemblies  10.28 Protection of assemblies  10.29 Protection of switching devices and compenents  10.29 Inscriptions  10.20 Contention of switching devices and compenents  10.21 Desen on apply, since the entire switchgear needs to be evaluated.  10.22 Inscriptions  10.23 Desen of apply, since the entire switchgear needs to be evaluated.  10.24 Decenances and crepage distances  10.25 Protection of switching devices and compenents  10.26 Desen on apply, since the entire switchgear needs to be evaluated.  10.27 Inscriptions  10.28 Decenance on of recogniting distances  10.29 Protection of switching devices and compenents  10.30 Desen on apply, since the entire switchgear needs to be evaluated.  10.40 Decenances and crepage distances  10.50 Protection of switching devices and compenents  10.51 Decenances for evaluation of responsibility.  10.52 Teaching devices and connections  10.53 Inspende withstand voltage  10.54 Teaching devices and connections  10.55 Teaching devices and connections  10.56 Teaching devices and connections  10.57 Teaching device		
Sourt-circuit protection rating		
Switching capacity Rated making capacity up to 880 V (cos phi to IEC/EN 60647-3) Voltage per contact pair in series  Contacts  Number of auxiliary contacts (change-over contacts)  Number of auxiliary contacts (normally closed contacts)  Number of auxiliary contacts (normally closed contacts)  O  Actuator  Actuator  Actuator  Actuator type  Dosr coupling rotary drive  Wests the product standard's requirements.  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  10.2.3 Passas of insul. mat. to abnormal heat/fire by internal elect. effects  10.2.3 Bests of insul. mat. to abnormal heat/fire by internal elect. effects  10.2.3 Experiments  10.2.4 Resistance to ultra-violet (UV) radiation  10.2.5 Lifting  Dosn not apply, since the entire switchpar needs to be evaluated.  10.2.5 Lifting  Dosn not apply, since the entire switchpar needs to be evaluated.  Meets the product standard's requirements.  10.3 Degree of protection of assemblies  Dosn not apply, since the entire switchpar needs to be evaluated.  Meets the product standard's requirements.  10.4 Clearances and creapage distances  Meets the product standard's requirements.  10.5 Protection against electric shock  Dosn not apply, since the entire switchpar needs to be evaluated.  Meets the product standard's requirements.  10.5 Protection against electric shock  Dosn not apply, since the entire switchpar needs to be evaluated.  10.5 Protection against electric shock  Dosn not apply, since the entire switchpar needs to be evaluated.  10.5 Protection against electric shock  Dosn not apply, since the entire switchpar needs to be evaluated.  1	· ·	640 A, Contacts, 1 second
Rated making capacity up to 600 V (cos phi to IEC/EN 80947-3)  Voltage per contact pair in series  Contacts  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 Olor  Actuator W  Actuator Ups  Design verification  102.2 Corrosion resistance  102.3.1 Verification of thermal stability of enclosures  102.3.2 Verification of thermal stability of enclosures  102.3.3 Resist of insul. mat. to abnormal heat/fire by internal elect. effects  102.4.8 Existance to ultra-violet (UV) radiation  10.2.5 Lifting  Does not apply, since the entire switchgaer needs to be evaluated.  10.2.7 Inscriptions  Mets the product standerd's requirements.  10.2.8 Mechanical impact  10.2.9 Experiments  10.2.9 Experiments  10.2.1 Servicions and creapage distances  Mets the product standerd's requirements.  10.3 Degree of protection of assemblies  10.4 Clearances and creapage distances  Mets the product standerd's requirements.  10.5 Protection against electric shock  10.6 Incorporation of switching devices and components  10.7 Inscriptions  Mets the product standerd's requirements.  10.8 Connections for external electric shock  10.9 Experiments  Does not apply, since the entire switchgaer needs to be evaluated.  10.9 Fortection against electric shock  10.9 Internal electrical circuits and connections  10.9 Internal electrical circuits and connections  10.9 Protection against electric shock  10.9 Connections for external conductors  10.9 Internal electrical circuits and connections  10.9 Internal electrical cir		50 A gG/gL, Fuse, Contacts
Voltage per contact pair in series  Contacts  Number of auxiliary contacts (change-over contacts)  Number of auxiliary contacts (change-over contacts)  Number of auxiliary contacts (normally closed contacts)  O  Actuator color  Actuator color  Actuator type  Design verification  10.2.2 Derign or 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 Resist of insul. mat. to abnormal heat/fire by internal elect. effects  10.2.4 Separate to ultra-violet (I/V) radiation  10.2.5 Lifting  Does not apply, since the entire switchgear needs to be evaluated.  10.2.1 Inscriptions  Meets the product standard's requirements.  10.2.2 Pospere of protection of assemblies  Does not apply, since the entire switchgear needs to be evaluated.  10.3 Degree of protection against electric shock  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.  10.4 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 Connections for external conductors  Is the panel builder's responsibility.  10.8 Connections for external conductors  Is the panel builder's responsibility.  10.9 Protection against electric strength  10.9 Protection against electric strength  10.9 Protection against electric strength  10.9 Protection against electric in switchgear needs to be evaluated.  10.1 Thermal electrical circuits and connections  Is the panel builder's responsibility.  10.1 Short-circuit rating  10.2 Power-frequency electric strength  10.3 The perilications for the switchgear must be dosberved.  10.1 Short-circuit rating  10.1 Short-circuit rating  10.1 Short-circuit rating  10.2 Electromagnetic compatibility  10.3 Mecha	Switching capacity	
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Number of auxiliary contacts (change-over contacts)  Number of auxiliary contacts (normally closed contacts)  O  Actuator  Actuator  Actuator  Actuator  Actuator  Door coupling rotary drive  Design verification  10.2.2 Corrosion resistance 10.2.3.1 Verification of sessitance of insulating materials to normal heat 10.2.3.2 Verification of resistance of insulating materials to normal heat 10.2.3.2 Verification of sessitance of insulating materials to normal heat 10.2.3.3 Resist of insul. mat. to abnormal heat/fire by internal elect. effects 10.2.4.4 Resistance to ultra-violet (IVI) radiation 10.2.5 Lifting 10.2.5 Lifting 10.2.5 Lifting 10.2.6 Mechanical impact 10.2.6 Mechanical impact 10.2.7 Inscriptions 10.2.8 Mechanical impact 10.2.9 Lifting 10.2.9 Lifting 10.3 Degree of protection of assemblies 10.4 Clearances and creepage distances 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 Protection of switching devices and components 10.9 Prover-frequency electric strength 10.9 Prover-frequency electric strength 10.9 Internal electrical circuits and connections 10.1 Internal electrical circuits and connections 10.2 Power-frequency electric strength 10.3 Impulse withstand voltage 10.4 Is the panel builder's responsibility. 10.5 Internal electrical circuits and connections 10.5 Internal electrical circuits and connections 10.6 Internal electrical circuits and connections 10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9 Internal electrical circuits and connections 10.9 Prover-frequency electric strength 10.9 Internal electr	Voltage per contact pair in series	60 V
Number of auxiliary contacts (normally closed contacts)  Actuator  Actuator color Actuator cype  Design verification  10.2.2 Corosion 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 thermal stability of enclosures 10.2.3.3 Verification of thermal stability of enclosures 10.2.4.3 Resistance to ultra-violet (UV) radiation 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 10.5 Protection of existent conductors 10.6 Connections for external conductors 10.7 Instructions 10.8 Connections for external conductors 10.9 Degree of protection of existent conductors 10.9 Protection of existent conductors 10.9 Instructions of exis	Contacts	
Number of auxiliary contacts (normally open contacts)  Actuator  Actuator color  Actuator type  Design verification  10.22 Corrosion resistance 10.23.1 Verification of resistance of insulating materials to normal heat 10.23.2 Verification of resistance of insulating materials to normal heat 10.23.3 Resist, of insul. mat. to abnormal heat/fire by internal elect. effects 10.24.8 Resistance to ultra-violet (UV) radiation 10.25 Lifting 10.25 Lifting 10.26 Mechanical impact 10.27 Inscriptions 10.30 Degree of protection of assemblies 10.40 Clearances and creepage distances 10.41 Resistances and creepage distances 10.43 Protection against electric shock 10.54 Inscriptions 10.55 Inscriptions 10.56 Incorporation of switching devices and components 10.57 Inscriptions of switching devices and components 10.59 Power-frequency electric strength 10.59 Power-frequency electric strength 10.50 Power-frequency electric strength 10.50 Power-frequency electric strength 10.50 Tendenal electric is responsibility. 10.50 T	Number of auxiliary contacts (change-over contacts)	0
Actuator color Actuator type  Design verification  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 10.2.3.2 Verification of resistance of insulating materials to normal heat 10.2.3.2 Verification of thermal stability of enclosures 10.2.3.3 Verification of resistance of insulating materials to normal heat 10.2.3.3 Verification of resistance of insulating materials to normal heat 10.2.3.4 Verification of thermal stability of enclosures 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 10.3.1 Degree of protection of assemblies 10.3.2 Degree of protection of assemblies 10.3.4 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 comnections 10.8 Incorporation of switching devices and components 10.9 Does not apply, since the entire switchgear needs to be evaluated. 10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9 Internal electrical circuits and connections 10.1 Internal electrical circuits and connections 10.2 Internal electrical circuits and connect	Number of auxiliary contacts (normally closed contacts)	0
Actuator color  Actuator type  Design verification  10.22 Corrosion resistance  10.23.1 Verification of thermal stability of enclosures  10.23.2 Verification of resistance of insulating materials to normal heat  10.23.3 Verification of thermal stability of enclosures  10.23.3 Verification of resistance of insulating materials to normal heat  10.23.3 Resist, of insul, mat, to abnormal heat/fire by internal elect. effects  10.24.3 Resistance to ultra-violet (UV) radiation  10.25 Lifting  10.26 Mechanical impact  10.27 Inscriptions  10.28 Mechanical impact  10.29 Represendent of assemblies  10.3 Dees 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 Rome, frequency electric strength  10.9 Internal electrical circuits and of insulating material  10.10 Temperature rise  The panel builder's responsibility.  10.11 Short-circuit rating  10.12 Electromagnetic compatibility  10.14 Electromagnetic compatibility  10.15 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	Number of auxiliary contacts (normally open contacts)	0
Does not apply, since the entire switchgear needs to be evaluated.  10.2 and corposition of assemblies  10.2 and corposition of product standard's requirements.  10.2 and corposition of the entire switchgear needs to be evaluated.  10.2 and corposition of serious and connections  10.3 begree of protection against electric shock  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 Resting of enclosures made of insulating material  10.9 A 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 Mechanical function  10.16 Meets the product standard's requirements.  10.17 Internal electrical circuits and connections  10.18 Lectromagnetic compatibility  10.19 A 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 Mechanical function  10.15 Mechanical function  10.16 Mechanical function  10.17 Mechanical function  10.18 Mechanical function  10.19 Mechanical function  10.19 Mechanical function  10.10 Temperature rise requirements, provided the information in the instruction	Actuator	
Design verification  10.22 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  10.2.6 Mechanical impact  10.2.7 Inscriptions  10.3 Degree of protection of assemblies  10.4 Clearances and creepage distances  10.4 Clearances and creepage distances  10.5 Protection against electric shock  10.6 Connections for external conductors  10.7 Internal electrical circuits and connections  10.8 Connections for external conductors  10.9.4 Testing of enclosures made of insulating material  10.9.1 Short-circuit rating  10.10 Temperature rise  10.11 Short-circuit rating  10.10 Temperature rise  10.10 Mechanical function  10.10 Temperature rise  10.11 Short-circuit rating  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 Temperature rise  10.17 Internal electrical circuits and connections  10.18 the panel builder's responsibility.  10.19 Temperature rise  10.19 Temperature rise  10.10 Temperature rise  10.10 Temperature rise  10.11 Short-circuit rating  10.12 Electromagnetic compatibility  10.13 Impulse withstand voltage  10.15 Electromagnetic compatibility  10.16 Temperature rise  10.17 Electromagnetic compatibility  10.18 The panel builder's responsibility. The specifications for the switchgear must be observed.  10.18 The panel builder's responsibility. The specifications for the switchgear must be observed.	Actuator color	Black
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  10.2.5 Lifting  10.2.6 Mechanical impact  10.2.7 Inscriptions  10.3 Degree of protection of assemblies  10.4 Clearances and creepage distances  10.4 Clearances and creepage distances  10.5 Protection against electric shock  10.5 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 Is the panel builder's responsibility.  10.9.1 Temperature rise  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.  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.  Does not apply, since the entire switchgear needs to be evaluated.  In the panel builder's responsibility.  10.8 Connections for external conductors  10.8 the panel builder's responsibility.  10.9.1 Temperature rise  10.9 The panel builder's responsibility.  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	Actuator type	Door coupling rotary drive
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 10.2.5 Lifting 10.2.6 Mechanical impact 10.2.7 Inscriptions 10.3.1 Degree of protection of assemblies 10.4 Clearances and creepage distances 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 10.9.4 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 10.13 Mechanical function 10.14 Mechanical function 10.15 Product standard's requirements. 10.6 Incorporation of switching devices and components 10.6 Incorporation of switching devices and components 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9 Internal electrical circuits and connections 10.10 Temperature rise leads to be evaluated. 10.10 Temperature rise 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 10.15 Mechanical function 10.16 Mechanical function 10.17 Mechanical function 10.18 Mechanical function 10.19 Temperature internal stable internal electric standard's requirements. 10.19 Methanical function 10.10 Temperature internal stable internal electric standard's requirements. 10.17 Methanical function 10.18 Mechanical function 10.19 Temperature rise 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanic	Design verification	
10.2.3 Verification of resistance of insulating materials to normal heat 10.2.3 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 Resting 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 10.13 Mechanical function 10.14 Revice meets the requirements. 10.2 Proved the entire switchear requirements. 10.3 Designed for the temperature rise responsibility. 10.4 Testing of enclosures made of insulating material 10.5 Protection against electric strength 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.8 the panel builder's responsibility. 10.9 Temperature rise 10.9 Temperature rise 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function 10.13 Mechanical function 10.13 Mechanical function 10.14 Mechanical function 10.15 Mechanical function 10.15 Mechanical function 10.16 Meets the product standard's requirements. 10.17 Meets the entire switchgear must be observed. 10.18 Mechanical function 10.19 Meets the product standard's requirements. 10.19 Meets the product standard's responsibility. The specifications for the switchgear must be observed. 10.19 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  10.9.2 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	10.2.3.1 Verification of thermal stability of enclosures	Meets the product standard's requirements.
10.24 Resistance to ultra-violet (UV) radiation  10.25 Lifting  10.26 Mechanical impact  10.27 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  10.92 Power-frequency electric strength  10.93 Impulse withstand voltage  10.94 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  10.28 Internal elucition with protective shield.  10.10 Temperature rise possibility  10.10 Temperature rise  10.11 Short-circuit rating  10.12 Electromagnetic compatibility  10.13 Mechanical function  10.14 Resistance only in connections with protection apply, since the entire switchgear needs to be evaluated.  10.10 Temperature rise  10.11 Short-circuit rating  10.12 Electromagnetic compatibility  10.13 Mechanical function  10.14 Resistance only in connection with protective enters witchgear must be observed.  10.13 Mechanical function  10.14 Resistance only in connection with protective enters witchgear must be observed.  10.15 Product standard's 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  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.  10.10 Temperature rise  The panel builder is responsibility.  10.11 Short-circuit rating  Is the panel builder's responsibility. The specifications for the switchgear must be observed.  10.12 Electromagnetic compatibility  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  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.  10.11 Short-circuit rating  Is the panel builder's responsibility. The specifications for the switchgear must be observed.  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  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  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.  The panel builder's responsibility.  In panel builder's responsibility.  In panel builder's responsibility.  In panel builder's responsibility.  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.	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  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.  10.9.4 Testing of enclosures made of insulating material  Is the panel builder's responsibility.  10.10 Temperature rise  The panel builder is 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	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  10.9.2 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  Meets the product standard's requirements.  Does not apply, since the entire switchgear needs to be evaluated.  Is the panel builder's responsibility.  The panel builder's responsibility.  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	10.2.7 Inscriptions	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  10.11 Short-circuit rating  10.12 Electromagnetic compatibility  10.13 Mechanical function  10.13 Mechanical function  10.14 Edvice meets the entire switchgear needs to be evaluated.  10.15 Protection against electric shock  10.16 Incorporation of switching devices and components  10.17 Internal electrical circuits and connections  10.18 Is the panel builder's responsibility.  10.19 Is the panel builder's responsibility.  10.10 Temperature rise  10.11 Short-circuit rating  10.12 Electromagnetic compatibility  10.13 Mechanical function  10.14 Edvice 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  10.16 Incorporation of switching devices and components  Is the panel builder's responsibility.  Is the panel builder's responsibility.  Is the panel builder's responsibility.  Is the panel builder is responsibility.  Is the panel builder is responsibility.  Is the panel builder is 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.  10.13 Mechanical function  10.14 Mechanical function  10.15 Incorporation of switching and connections a	10.4 Clearances and creepage distances	Meets the product standard's requirements.
10.7 Internal electrical circuits and connections  Is the panel builder's responsibility.  10.8 Connections for external conductors  Is the panel builder's responsibility.  10.9.2 Power-frequency electric strength  Is the panel builder's responsibility.  10.9.3 Impulse withstand voltage  Is the panel builder's responsibility.  10.9.4 Testing of enclosures made of insulating material  Is the panel builder's responsibility.  10.10 Temperature rise  The panel builder is responsibile 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	10.5 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  10.14 Steppens builder's responsibility. The specifications for the switchgear must be observed.  10.15 Mechanical function  10.16 The panel builder's responsibility. The specifications for the switchgear must be observed.  10.17 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 specification for the switchgear must be observed.  10.15 When the panel builder's responsibility. The specifications for the switchgear must be observed.  10.15 When the panel builder's responsibility. The specifications for the switchgear must be observed.  10.15 When the panel builder's responsibility. The specifications for the switchgear must be observed.  10.16 When the panel builder's responsibility. The specifications for the switchgear must be observed.  10.16 When the panel builder's responsibility. The specifications for the switchgear must be observed.	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.  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.
10.9.3 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.  10.13 Mechanical function  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		
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	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]) Version as main switch Yes Version as maintenance-/service switch Yes Version as safety switch No Version as emergency stop installation No Version as reversing switch No Number of switches ٧ 690 Max. rated operation voltage Ue AC ٧ 690 - 690 Rated operating voltage 32 Rated permanent current lu Α Rated permanent current at AC-23, 400 V Α Rated permanent current at AC-21, 400 V 32 Rated operation power at AC-3, 400 V kW 0 kΑ Rated short-time withstand current lcw 0.64 Rated operation power at AC-23, 400 V kW 13 Switching power at 400 V kW Conditioned rated short-circuit current Iq kΑ 80 Number of poles 3 0 Number of auxiliary contacts as normally closed contact 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 Black Type of control element Door coupling rotary drive Interlockable Yes Type of electrical connection of main circuit Screw connection With pre-assembled cabling No IP65 Degree of protection (IP), front side Degree of protection (NEMA) 12 Width 100 mm Height 180 mm 115 Depth mm

Width in number of modular spacings