## Shunt release, 380-440VAC/DC, +1early N/O



Part no. NZM1-XAHIVL380-440AC/DC 259802

General specifications	
Product name	Eaton Moeller series NZM release
Part no.	NZM1-XAHIVL380-440AC/DC
EAN	4015082598020
Product Length/Depth	37 millimetre
Product height	66 millimetre
Product width	32 millimetre
Product weight	0.044 kilogram
Compliances	IEC UL/CSA RoHS conform
Certifications	UL listed CSA-C22.2 No. 5-09 UL (Category Control Number DIHS) UL (File No. E140305) CE marking CSA (Class No. 1437-01) CSA certified UL489 CSA (File No. 22086) IEC60947
Product Tradename	NZM
Product Type	Accessories
Product Sub Type	Release
Delivery program	
Туре	Accessory Shunt release
Special features	Cannot be used in conjunction with NZMXR remote operator. If the shunt trip is live, contact with the circuit breaker's primary contacts is prevented when switched on. Early make of auxiliary contact on switching on and off (manual operation): approx. 20 ms. Shunt releases cannot be installed simultaneously with NZMXHIV early-make auxiliary contact or NZMXU undervoltage release.
Frame	NZM1
Fitted with:	Early-make auxiliary contact
Suitable for	Off-load switch
Used with	NZM1(-4), N(S)1(-4)
Technical Data - Electrical	
Voltage type	AC
Voltage rating	0.7 - 1.1 x Us
Voltage rating at AC (x Us) - min	0.7
Voltage rating at AC (x Us) - max	1.1
Rated control voltage (relay contacts)	380 V AC 440 V AC 380 V DC 440 V DC
Rated control supply voltage	380 - 440 V AC/DC
Rated control supply voltage (Us) at AC, 50 Hz - min	380 V
Rated control supply voltage (Us) at AC, 50 Hz - max	440 V
Rated control supply voltage (Us) at AC, 60 Hz - min	380 V
Rated control supply voltage (Us) at AC, 60 Hz - max	440 V
Rated control supply voltage (Us) at DC - min	380 V
Rated control supply voltage (Us) at DC - max	440 V
Frequency rating	50 Hz / 60 Hz / 200 Hz / 400 Hz, DC (shunt release)
Pick-up power consumption (shunt release)	2.5 VA/W
Reaction time	20 ms
Time on duty - max	00
Minimum command time - min	10 ms

Electric connection type  Technical Data - Mechanical  Number of contracts (change-over contacts)  Number of contracts (normally open contacts)  Connection type  Special features  With 3 m connection cable intended of screw termination  Special features  With 3 m connection cable intended of screw termination  Cannot be used in conjumption with NZM_XMR_remote aparator. If the short trip is live, contact with the circuit breaker's primary contacts is prevented when the contact breaker's primary contacts is prevented when the circuit breaker's primary contacts is prevented with NZM_XMR_remote aparator. If the short trip is live, contact with the circuit breaker's primary contacts is prevented with NZM_XMR_remote aparator. If the short trip is live, contact with the circuit breaker's primary contacts is prevented with NZM_XMR_remote aparator. If the short trip is live, contact with the circuit breaker's primary contacts is prevented with NZM_XMR_remote aparator. If the short trip is live, contact with the circuit breaker's primary contacts is prevented with NZM_XMR_remote aparator. If the short trip is live, contact with the circuit breaker's primary contacts is prevented with NZM_XMR_remote aparator. If the short trip is live, contact with the circuit breaker's primary contacts is prevented with NZM_XMR_remote aparator. If the short trip is live, contact with the circuit breaker's primary contacts is prevented with NZM_XMR_remote aparator. If the short trip is live, contact with the circuit breaker's primary contacts is prevented with the circuit breaker's primary contacts in product short with the circuit breaker's primary contacts in product short with the circuit breaker's primary contacts in standard's requirements.  10.2.3 in primary primary primary primary primary live by internal elect. effects  10.2.3 in product standard's requirements.  10.2.3 in product standard's requireme		
Technical Data - Mechanical Number of contacts (change-own contacts)  Number of contacts (change-own contacts)  Description (Special features)  Special features  Commo the used in computation with Number of contacts (shored)  Special features  Commo the used in computation with Number of contacts (shored)  Special features  Commo the used in computation with Number of contacts (shored)  Special features  Commo the used in computation with Number of contacts (shored)  Special features  Commo the used in computation with Number of contacts (shored)  Special features  Commo the used in computation with Number of the shored triple in the shored triple is shored in the shored triple in the crue the white of the shored triple is shored in the crue the shored is shored in the shored in the crue the shored is prevented when coerardon's appear, 20 mile. 2	Minimum command time - max	15 ms
Number of contacts (change-over contacts)  Number of contacts formuly closed contacts  Number of contacts formuly closed contacts  Number of contacts formuly closed contacts  Number of contacts (annuly open contacts)  With 3 in connection cable instead of screw formulation  Cannot be used in conjunction with law-Mark primarile spears. If the shart trip is few contacts to a switching on a contact trip is size, contact cable instead of screw formulation operations, approx. 20 in Size of Cannot be used in conjunction with the circuit breaking contact on switching on a der of (Inchina) operation); approx. 3 in Size of Cannot be installed simultaneously with NZM-XHV. Learly-make suciliary contact on NZM-XHV. undervoltage release.  Terminal capacity (solidifiexible conductor)  Terminal capacity (solidifiexible conductor)  O 75 mm² - 2.5 mm² (12/4) at shurt release a conductor)  Terminal capacity (solidifiexible conductor)  O 75 mm² - 2.5 mm² (12/4) at shurt release and of (Inchina) of 13 mm² - 2.5 mm² (12/4) at shurt release and conductor)  Terminal capacity (solidifiexible conductor)  O 8 mm² - 2.5 mm² (12/4) for undervoltage releases, off-delayed with ferrule 0.75 mm² - 2.5 mm² (12/4) for undervoltage releases, off-delayed with ferrule 0.75 mm² - 2.5 mm² (12/4) for undervoltage releases, off-delayed with ferrule 0.75 mm² - 2.5 mm² (12/4) for undervoltage releases, off-delayed with ferrule 0.75 mm² - 2.5 mm² (12/4) for undervoltage releases, off-delayed with ferrule 0.75 mm² - 2.5 mm² (12/4) for undervoltage releases, off-delayed with ferrule 0.75 mm² - 2.5 mm² (12/4) for undervoltage releases, off-delayed with ferrule 0.75 mm² - 2.5 mm² (12/4) for undervoltage releases, off-delayed with ferrule 0.75 mm² - 2.5 mm² (12/4) for undervoltage releases, off-delayed with ferrule 0.75 mm² - 2.5 mm² (12/4) for undervoltage releases, off-delayed with ferrule 0.75 mm² - 2.5 mm² (12/4) for undervoltage releases, off-delayed with ferrule 0.75 mm² - 2.5 mm² (12/4) for undervoltage releases, off-delayed with ferrule 0.75 mm² - 2.5	· · · · · · · · · · · · · · · · · · ·	Screw connection
Number of contacts (normally closed contacts)  Number of contacts (normally open contacts)  Cannot be used in conjunction with NZM.—XR. remote operator. If the shurt trip is 10%, contact visit the circuit breaker's primary contacts is prevented when everthele on. Early in sale of admissive center to switching or and off immode with the circuit breaker's primary contacts in spreadors when every the contact with the circuit breaker's primary contacts in spreadors when every trip is 10%, contact visit the circuit breaker's primary contacts in spreadors when every trip is 10%, contact visit the circuit breaker's primary contact or NZM.—XII.—undervoltage relies as prevented when every trip is 10%, contact visit the circuit breaker's primary contact or NZM.—XII.—undervoltage relies as prevented when every trip is 10%, and is 10%	Technical Data - Mechanical	
Number of contacts (normally open contacts)  Cannection type  Special features  Special features  Special features  Cannot be used in conjunction with IVIAXII remote operator. If the short trut is law, contact with the circuit breaker opinishy contacts is prevented when event in conjunction with IVIAXIII remote operator. If the short trut is law, contact with the circuit breaker opinishy contacts in prevented when event in conjunction with IVIAXIII and operation. Approx. 20 ms. Shurt releases cannot be installed simultaneously with NZMXIII and operation. Approx. 20 ms. Shurt releases cannot be installed simultaneously with NZMXIII and operator. If the shurt trelease is a shurt release with Ferrule is 1-14 AWIG (2x) at shurt releases. If delayed is 1-14 AWIG (2x) at shurt releases. If delayed is 1-14 AWIG (2x) at shurt releases. If delayed with ferrule 0.75 mm² - 2.5 mm² (2x) for undervoltage releases, off-delayed with ferrule 0.75 mm² - 2.5 mm² (2x) for undervoltage releases, off-delayed with ferrule 0.75 mm² - 2.5 mm² (2x) for undervoltage releases, off-delayed with ferrule 0.75 mm² - 2.5 mm² (2x) for undervoltage releases, off-delayed with ferrule 0.75 mm² - 2.5 mm² (2x) for undervoltage releases, off-delayed with ferrule 0.75 mm² - 2.5 mm² (2x) for undervoltage releases, off-delayed with ferrule 0.75 mm² - 2.5 mm² (2x) for undervoltage releases, off-delayed with ferrule 0.75 mm² - 2.5 mm² (2x) for undervoltage releases, off-delayed with ferrule 0.75 mm² - 2.5 mm² (2x) for undervoltage releases, off-delayed with ferrule 0.75 mm² - 2.5 mm² (2x) for undervoltage releases, off-delayed with ferrule 0.75 mm² - 2.5 mm² (2x) for undervoltage releases, off-delayed with ferrule 0.75 mm² - 2.5 mm² (2x) for undervoltage releases, off-delayed with ferrule 0.75 mm² - 2.5 mm² (2x) for undervoltage releases, off-delayed with ferrule 0.75 mm² - 2.5 mm² (2x) for undervoltage releases, off-delayed with ferrule 0.75 mm² - 2.5 mm² (2x) for undervoltage releases, off-delayed vision of the undervolt	Number of contacts (change-over contacts)	0
Connection type  With 3 m connection cable instead of screw termination  Cannot be used in conjunction with NZMXII remote operator. If the shunt risk is expensed with the circuit brave in the shunt with the circuit brave in the straight of timular operator. If the shunt release with ferrule 18-14 AWG (1x) for undervoltage release. Of the development of the circuit is 1-14 AWG (1x) for undervoltage releases, off-delayed with ferrule 18-14 AWG (1x) for undervoltage releases, off-delayed with ferrule 18-14 AWG (1x) for undervoltage releases, off-delayed with ferrule 18-14 AWG (1x) for undervoltage releases, off-delayed with ferrule 18-14 AWG (1x) for undervoltage releases, off-delayed with ferrule 18-14 AWG (1x) at shurt release off-delayed with ferrule 18-14 AWG (1x) at shurt release off-delayed with ferrule 18-14 AWG (1x) at shurt release off-delayed with ferrule 18-14 AWG (1x) at shurt release off-delayed with ferrule 18-14 AWG (1x) at shurt release off-delayed with ferrule 18-14 AWG (1x) at shurt release off-delayed with ferrule 18-14 AWG (1x) at shurt release off-delayed with ferrule 18-14 AWG (1x) at shurt release off-delayed with ferrule 18-14 AWG (1x) at shurt release off-delayed with ferrule 18-14 AWG (1x) at shurt release off-delayed with ferrule 18-14 AWG (1x) at shurt release off-delayed with ferrule 18-14 AWG (1x) at shurt release off-delayed with ferrule 18-14 AWG (1x) at shurt release off-delayed with ferrule 18-14 AWG (1x) at shurt release off-delayed with ferrule 18-14 AWG (1x) at shurt release off-delayed with ferrule 18-14 AWG (1x) at shurt release off-delayed with ferrule 18-14 AWG (1x) at shurt releases off-delayed with ferrule 18-14 AWG (1x) at shurt releases off-delayed with ferrule 18-14 AWG (1x) at shurt release off-delayed with ferrule 18-14 AWG (1x) at shurt release off-delay	Number of contacts (normally closed contacts)	0
Special features  Cannot be used in conjunction with NZMXR., remote operator. If the shunt trip is low, contect with the circuit breaker's primary contacts is provented when switched on. A fairly make of sundiction of an workingt on and off insulation of the circuit breaker's primary contacts is provented when switched in Early make of sundiction of an workingt on and off insulation NZMXHIV early-make auxiliary contact on NZMXU undervoltage releases.  Terminal capacity  solid/flexible conductor   10.75 mm² - 2.5 mm² (2b) at shunt release with ferrule is 1.4 AWG (1x for undervoltage releases, off-delayed with ferrule 0.75 mm² - 2.5 mm² (2b) at shunt release with ferrule 0.7	Number of contacts (normally open contacts)	1
trip is live, contact with the activat breaker's primary contacts is prevented when switched on. Larly make of auxiloact on switching on and off (innural operation): approx. 20 ns. Shurt releases cannot be installed simultaneously with NZMXHIV enry-make auxiliary contact or NZMXVII undervoltage releases.  Terminal capacity (solid/floxible conductor)  Terminal capacity (solid/floxible conductor)  O75 mm² - 25 mm² (2x) of shurt release with ferrule 18-14 AWG (1x) for undervoltage releases, off-delayed with ferrule 0.75 mm² - 25 mm² (2x) of the more releases off-delayed with ferrule 0.75 mm² - 25 mm² (2x) of the more releases, off-delayed with ferrule 0.75 mm² - 25 mm² (2x) of the more releases off-delayed with ferrule 0.75 mm² - 25 mm² (2x) of the more releases off-delayed with ferrule 18-14 AWG (1x) for undervoltage releases, off-delayed with ferrule 0.75 mm² - 25 mm² (2x) at shurt release 19-14 AWG (1x) for undervoltage releases, off-delayed with ferrule 0.75 mm² - 25 mm² (2x) at shurt release 19-14 AWG (1x) for undervoltage releases, off-delayed with ferrule 18-14 AWG (1x) for undervoltage releases, off-delayed with ferrule 18-14 AWG (1x) for undervoltage releases, off-delayed with ferrule 18-14 AWG (1x) for undervoltage releases, off-delayed with ferrule 18-14 AWG (1x) for undervoltage releases, off-delayed with ferrule 18-14 AWG (1x) for undervoltage releases, off-delayed with ferrule 18-14 AWG (1x) for undervoltage releases, off-delayed with ferrule 18-14 AWG (1x) for undervoltage releases, off-delayed with ferrule 18-14 AWG (1x) for undervoltage releases, off-delayed with ferrule 18-14 AWG (1x) for undervoltage releases, off-delayed with ferrule 18-14 AWG (1x) for undervoltage releases, off-delayed with ferrule 18-14 AWG (1x) for undervoltage releases, off-delayed with ferrule 18-14 AWG (1x) for undervoltage releases, off-delayed with ferrule 18-14 AWG (1x) for undervoltage releases, off-delayed with ferrule 18-14 AWG (1x) for undervoltage releases, off-delayed with ferrule 18-14 AWG (1x) fo	Connection type	With 3 m connection cable instead of screw termination
Terminal capacity (solid/flexible conductor)    Dos	Special features	trip is live, contact with the circuit breaker's primary contacts is prevented when switched on. Early make of auxiliary contact on switching on and off (manual operation): approx. 20 ms. Shunt releases cannot be installed simultaneously with
18 - 14 AWG (12) at shurt release   0.75 mm² - 25 mm² (12) for undervoltage releases, off-delayed with ferrule   0.75 mm² - 25 mm² (12) for undervoltage releases, off-delayed with ferrule   0.75 mm² - 25 mm² (12) for undervoltage releases, off-delayed with ferrule   0.75 mm² - 25 mm² (12) at shurt release with ferrule   0.75 mm² - 25 mm² (12) at shurt release with ferrule   10.24 for undervoltage releases, off-delayed   10.22 Corrosion resistance   10.23 Verification of thermal stability of enclosures   10.22 Corrosion resistance of insulating materials to normal heat   10.23 Verification of resistance of insulating materials to normal heat   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 Resistance to ultra-violat (UV) radiation   10.25 Lifting   10.26 Mechanical impact   10.27 Inscriptions   10.28 Mechanical impact   10.29 Therefore and crepage distances   10.29 Therefore and crepage distances   10.20 Exercises and crepage distances   10.21 Fortection against electric shock   10.25 Inscriptions   10.26 Inscriptions   10.26 Inscriptions   10.27 Inscriptions   10.28 Connections of switching devices and components   10.29 Power-frequency electric shock   10.29 Power-frequency electric strength   10.3 Inscriptions   15 the panel builder's responsibility.   10.3 Connections for external conductors   10.4 Thermal electrical circuits and connections   10.5 Inscriptions   15 the panel builder's responsibility.   10.6 Incorporation of switching devices and components   10.7 Inscriptions   15 the panel builder's responsibility.   10.8 Connections for external conductors   10.9 Thermal electric shock   10.9 Thermal electric strength   10.1 Thermal electric shock   10.1 Thermal electric shock   10.2 Extended to the entire switchgear needs to be evaluated.   10.1 Thermal electric shock	Technical Data - Mechanical - Terminals	
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  10.5 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 Power-frequency electric strength  10.9 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.  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  10.8 Connections for external conductors  10.8 the panel builder's responsibility.  10.9.2 Power-frequency electric strength  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  Meets the product standard's requirements.  Does not apply, since the entire switchgear needs to be evaluated.  10.15 the panel builder's responsibility.  10.16 the panel builder's responsibility.  10.17 the panel builder's responsibility. The specifications for the switchgea	Terminal capacity (solid/flexible conductor)	18 - 14 AWG (1x) for undervoltage releases, off-delayed 18 - 14 AWG (2x) at shunt release 0.75 mm² - 2.5 mm² (1x) for undervoltage releases, off-delayed with ferrule 0.75 mm² - 2.5 mm² (2x) for undervoltage releases, off-delayed with ferrule 0.75 mm² - 2.5 mm² (1x) at shunt release with ferrule 18 - 14 AWG (1x) at shunt release
10.2.1 Verification of thermal stability of enclosures  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  10.2.5 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 icruits 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 provide hast 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.  In the device meets the requirements, provided the information in the instruction of the switchgear must be observed.	Design verification as per IEC/EN 61439	
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 10.2.7 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 Ingular visual and 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.  Meets 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.  10.7 Internal electrical circuits and connections 1 Is the panel builder's responsibility.  10.9.2 Power-frequency electric strength 1 Is the panel builder's responsibility.  10.9.4 Testing of enclosures made of insulating material 1 Is the panel builder's responsibility.  10.10 Temperature rise 1 Is the panel builder's responsibility.  10.11 Short-circuit rating 1 Is the panel builder's responsibility. The specifications for the switchgear must be observed.  10.12 Electromagnetic compatibility 1 Is the panel builder's responsibility. The specifications for the switchgear must be observed.  10.13 Mechanical function 1 The device meets the requirements, provided the information in the instruction	10.2.2 Corrosion resistance	Meets the product standard's requirements.
10.2.3.8 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects  10.2.4 Resistance to ultra-violet (UV) radiation  Meets the product standard's requirements.  10.2.5 Lifting  Does not apply, since the entire switchgear needs to be evaluated.  10.2.6 Mechanical impact  Does not apply, since the entire switchgear needs to be evaluated.  10.2.7 Inscriptions  Meets the product standard's requirements.  10.3 Degree of protection of assemblies  Does not apply, since the entire switchgear needs to be evaluated.  10.4 Clearances and creepage distances  Meets the product standard's requirements.  10.5 Protection against electric shock  Does not apply, since the entire switchgear needs to be evaluated.  10.6 Incorporation of switching devices and components  Does not apply, since the entire switchgear needs to be evaluated.  10.7 Internal electrical circuits and connections  Is the panel builder's responsibility.  10.9.2 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  10.11 Short-circuit rating  Is the panel builder's responsibility.  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	10.2.3.1 Verification of thermal stability of enclosures	Meets the product standard's requirements.
10.24 Resistance to ultra-violet (UV) radiation  Meets the product standard's requirements.  10.25 Lifting  Does not apply, since the entire switchgear needs to be evaluated.  10.26 Mechanical impact  Does not apply, since the entire switchgear needs to be evaluated.  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.  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.  10.92 Power-frequency electric strength  Is the panel builder's responsibility.  10.93 Impulse withstand voltage  Is the panel builder's responsibility.  10.94 Testing of enclosures made of insulating material  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	10.2.3.2 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  10.9.3 Impulse withstand voltage  In 19.9.4 Testing of enclosures made of insulating material  10.10 Temperature rise  The panel builder is responsibility.  10.11 Short-circuit rating  Is the panel builder is 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	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	Meets the product standard's requirements.
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.	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'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	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 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.
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 Description of switching devices and components  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  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  10.9.3 Impulse withstand voltage  1s the panel builder's responsibility.  10.9.4 Testing of enclosures made of insulating material  1s the panel builder's responsibility.  1o.10 Temperature rise  1o.11 Short-circuit rating  1s the panel builder is responsibility.  1s the panel builder is 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  10.13 Mechanical function  10.14 Steppen builder's responsibility.  10.15 Is the panel builder's responsibility.  10.16 The panel builder's responsibility.  10.17 Internal electrical circuits and connections  10.18 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 Every eneets 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  10.13 Mechanical function  10.14 Strength builder's responsibility.  11.15 Is the panel builder's responsibility.  12.16 The panel builder is responsibility.  13.17 The panel builder is responsibility.  14.18 The panel builder is responsibility. The specifications for the switchgear must be observed.  15.19 The panel builder's responsibility. The specifications for the switchgear must be observed.  16.19 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  Is the panel builder's responsibility.  Is 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	10.7 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  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.
10.9.4 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 Esting of enclosures made of insulating material  15 the panel builder's responsibility. The temperature rise calculation. Eaton will provide heat dissipation data for the devices.  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	10.9.2 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  1s the panel builder's responsibility. The specifications for the switchgear must be observed.  10.12 Electromagnetic compatibility  1s 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 8.0**

Low-voltage industrial components (EG000017) / Shunt release (for power circuit breaker) (EC001023)				
Electric engineering, automation, process control engineering / Low-voltage switch technology / Circuit breaker (LV < 1 kV) / Full load current trip (ecl@ss10.0.1-27-37-04-18 [AKF016013])				
Rated control supply voltage Us at AC 50HZ	\	V	380 - 440	
Rated control supply voltage Us at AC 60HZ	\	V	380 - 440	
Rated control supply voltage Us at DC	\	V	380 - 440	
Voltage type for actuating			AC	
Initial value of the undelayed short-circuit release - setting range	A	А	0	
End value adjustment range undelayed short-circuit release	A	A	0	
Type of electric connection			Screw connection	
Number of contacts as normally open contact			1	
Number of contacts as normally closed contact			0	
Number of contacts as change-over contact			0	

Suitable for power circuit breaker	No
Suitable for off-load switch	Yes
Suitable for motor safety switch	No
Suitable for overload relay	No