259432
NZM1-XHIVL

TECHNICAL DATA

Auxiliary contacts

Rated operational voltage [U_e]
Rated operational voltage [Ue]
500 V AC

Rated operational voltage [U_e]
Rated operational voltage, max. [Ue]
220 V DC

Conventional thermal current [$I_{th} = I_e$]
4 CSA

Rated operational current [I_e]
Different rated operational currents when used as auxiliary contact for NZM circuit-breaker

					M22-K..	M22-CK..	XHIV
				bei AC = 50/60 Hz			
Bemessungsbetriebsstrom							
AC-15	115 V		Ie	A	4	4	4

	230 V	Ie	A	4	4	4
	400 V	Ie	A	2	-	2
	500 V	Ie	A	1	-	1
DC-13	24 V	Ie	A	3	3	3
	42 V	Ie	A	1.7	1	1.5
	60 V	Ie	A	1.2	0.8	0.8
	110 V	Ie	A	0.8	0.5	0.5
	220 V	Ie	A	0.3	0.2	0.2

Short-circuit protection
max. fuse
10 A gG/gL

Short-circuit protection
Max. miniature circuit-breaker
FAZ-B6 A

Operating times
Early-make time of the HIV compared to the main contacts during with make and break switching.

(switch times with manual operation):

NZM1, PN1, N(S)1: ca. 20 ms

NZM2, PN2, N(S)2: ca. 20 ms

NZM3, PN3, N(S)3: ca. 20 ms

NZM4, N(S)4: approx. 90 ms, the HIV switch early **Off** switching **not** forward.

Terminal capacities
Solid or flexible conductor, with ferrule
1 x (0,75 - 2,5)
2 x (0,75 - 2,5) mm^2

Terminal capacities
1 x (18 - 14)
2 x (18 - 14) AWG

UL/CSA
Rated operational current [I_e]
2.5 A - 240 V AC
1 A - 250 V DC A

UL/CSA
Heavy Pilot Duty
C300/R300

Other technical data (sheet catalogue)
Maximum equipment and position of the internal accessories
Time differences ON-OFF

DESIGN VERIFICATION AS PER IEC/EN 61439

IEC/EN 61439 design verification

10.2 Strength of materials and parts
10.2.2 Corrosion resistance
Meets the product standard's requirements.

10.2 Strength of materials and parts
10.2.3.1 Verification of thermal stability of enclosures
Meets the product standard's requirements.

10.2 Strength of materials and parts
10.2.3.2 Verification of resistance of insulating materials to normal heat
Meets the product standard's requirements.

10.2 Strength of materials and parts
10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects
Meets the product standard's requirements.

10.2 Strength of materials and parts
10.2.4 Resistance to ultra-violet (UV) radiation
Meets the product standard's requirements.

10.2 Strength of materials and parts
10.2.5 Lifting
Does not apply, since the entire switchgear needs to be evaluated.

10.2 Strength of materials and parts
10.2.6 Mechanical impact
Does not apply, since the entire switchgear needs to be evaluated.

10.2 Strength of materials and parts
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 Insulation properties
10.9.2 Power-frequency electric strength
Is the panel builder's responsibility.

10.9 Insulation properties
10.9.3 Impulse withstand voltage
Is the panel builder's responsibility.

10.9 Insulation properties
10.9.4 Testing of enclosures made of insulating material
Is the panel builder's responsibility.

10.10 Temperature rise
The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.

10.11 Short-circuit rating
Is the panel builder's responsibility. The

specifications for the switchgear must be observed.

10.12 Electromagnetic compatibility
Is the panel builder's responsibility. The specifications for the switchgear must be observed.

10.13 Mechanical function
The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

TECHNICAL DATA ETIM 7.0

Low-voltage industrial components (EG000017) / Auxiliary contact block (EC000041)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Component for low-voltage switching technology / Auxiliary switch block (ecl@ss10.0.1-27-37-13-02 [AKN342013])

Number of contacts as change-over contact
0

Number of contacts as normally open contact
2

Number of contacts as normally closed contact
0

Number of fault-signal switches
0

Rated operation current Ie at AC-15, 230 V
4 A

Type of electric connection
Screw connection

Model
Integrable

Mounting method

Other

Lamp holder
None

APPROVALS

Product Standards
UL489; CSA-C22.2 No. 5-09; IEC60947, CE marking

UL File No.
E140305

UL Category Control No.
DIHS

CSA File No.
022086

CSA Class No.
1437-01

North America Certification
UL listed, CSA certified

DIMENSIONS