

Auxiliary contacts

NO = Normally open 1 NO

N/C = Normally closed 1 N/C

For use with

DILM80

DILM95

DILM115

DILM150

DIULM80

DIULM95

DIULM115

DIULM150

SDAINLM140

SDAINLM165

SDAINLM200

SDAINLM260

Conformity, Approval

Explosion protection (according to ATEX 94/9/EC) II(2)GD [Ex d] [Ex e] [Ex tb]

EC-prototype test certification SIRA 13 ATEX 9348X

TECHNICAL DATA

General

Standards IEC/EN 60947, VDE 0660, UL, CSA Olimatic proofing Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30

Ambient temperature Open -25 - +65 °C

Ambient temperature open max. 65 °C

Ambient temperature Enclosed Ambient temperature enclosed max. 45 °C

Mechanical shock resistance 15 Shock duration 10 ms according to IEC 60068-2-27 g

Degree of Protection IP20

Protection against direct contact when actuated from front (EN 50274)
Finger and back-of-hand proof

Altitude Max. 2000 m

Main conducting paths

Rated impulse withstand voltage [U_{mp}] 6000 V AC

Overvoltage category/pollution degree III/3

Rated insulation voltage [U_i] 690 V AC

Rated operational voltage [U_e] 690 V AC

Rated frequency [f] 50/60 Hz

Safe isolation to EN 61140 Between auxiliary contacts and main contacts 600 V AC

Safe isolation to EN 61140 Between main circuits 600 V AC

Terminal capacities Solid 1 x 16 - 50 mm²

Terminal capacities Solid or stranded 1 x 6 - 1 AWG

Stripping length 14 mm

Auxiliary and control circuits

Rated impulse withstand voltage [U_{mp}] 6000 V

Overvoltage category/pollution degree III/3

Terminal capacities Solid 2 x (0.75 - 4) mm²

Terminal capacities Flexible with ferrule 2 x (0.75 - 2.5) mm²

Terminal capacities Solid or stranded 2 x (18 - 12) AWG

Terminal screw M3.5

Tightening torque 0.8 - 1.2 Nm Tightening torque 7 lb-in Stripping length 8 mm Tools Pozidriv screwdriver 2 Size Tools Standard screwdriver 1 x 6 mm Rated insulation voltage [U_i] 500 V AC Rated operational voltage [U_e] 500 V AC Safe isolation to EN 61140 between the auxiliary contacts 240 V AC Conventional thermal current $[I_{th}]$ 5 A Rated operational current [le] AC-15 Make contact $120\,V\,[l_{\rm e}\,]$ 1.5 A Rated operational current $[l_e]$ AC-15 Make contact 220 V 230 V 240 V [le] 1.5 A Rated operational current [le] AC-15 Make contact 380 V 400 V 415 V [l_e] 0.5 A

Rated operational current [l_e] AC-15 Make contact 500 V [l_e] 0.5 A

Rated operational current [l_e] AC-15 Break contact 120 V [l_e] 1.5 A

Rated operational current [l_e] AC-15 Break contact 220 V 230 V 240 V [l_e] 1.5 A

Rated operational current [l_e] AC-15 Break contact 380 V 400 V 415 V [l_e] 0.9 A

Rated operational current [I_e] AC-15 Break contact 500 V [I_e] 0.8 A

Rated operational current [le] DC L/R \square 15 ms Switch-on and switch-off conditions based on DC-13, time constant as specified.

Rated operational current [I $_{\rm e}$] DC L/R $_{\rm i}$ 15 ms 24 V [I $_{\rm e}$] 0.9 A

Rated operational current [I_e] DC L/R \Box 15 ms 60 V [I_e] 0.75 A

Rated operational current [le] DC L/R \square 15 ms 110 V [le] 0.4 A

Rated operational current [le]

DC L/R \square 15 ms 220 V [I_e] 0.2 A

Short-circuit rating without welding max. fuse 6 A gG/gL

Rating data for approved types

Auxiliary contacts Flot Duty AC operated B600

Auxiliary contacts Pilot Duty DC operated R300

Short Circuit Current Rating 600 V High Fault SCOR (fuse) 100 kA

Short Circuit Current Rating 600 V High Fault max. Fuse 200 Class J A

DESIGN VERIFICATION AS PER IEC/EN 61439

Technical data for design verification

Rated operational current for specified heat dissipation [I_n] 100 A

Heat dissipation per pole, current-dependent [P_{id}] 8.47 W

Equipment heat dissipation, current-dependent $[P_{\text{vid}}]$ 25.4 W

Static heat dissipation, non-current-dependent [P\s] 0 W

Heat dissipation capacity [P_{diss}] 0 W

Operating ambient temperature min. -25 °C

Operating ambient temperature max. +65 °C

IEC/EN 61439 design verification

10.2 Strength of materials and parts10.2.2 Corrosion resistanceMeets 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 Weets the product standard's requirements.

10.2 Strength of materials and parts10.2.5 LiftingDoes not apply, since the entire switchgear needs to be evaluated.

10.2 Strength of materials and parts10.2.6 Wechanical impactDoes not apply, since the entire switchgear needs to be evaluated.

10.2 Strength of materials and parts10.2.7 InscriptionsMeets the product standard's requirements.

10.3 Degree of protection of ASSEVBLIES 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 properties10.9.3 Impulse withstand voltageIs the panel builder's responsibility.

10.9 Insulation properties10.9.4 Testing of enclosures made of insulating materialIs 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 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) / Electronic overload relay (EC001080)

Bectric engineering, automation, process control engineering / Low-voltage switch technology / Overload protection device / Bectronic overload relay (ecl@ss10.0.1-27-37-15-02 [AKF076014])

Adjustable current range 20 - 100 A

Mounting method Direct attachment

Type of electrical connection of main circuit Screw connection

Number of auxiliary contacts as normally closed contact

1

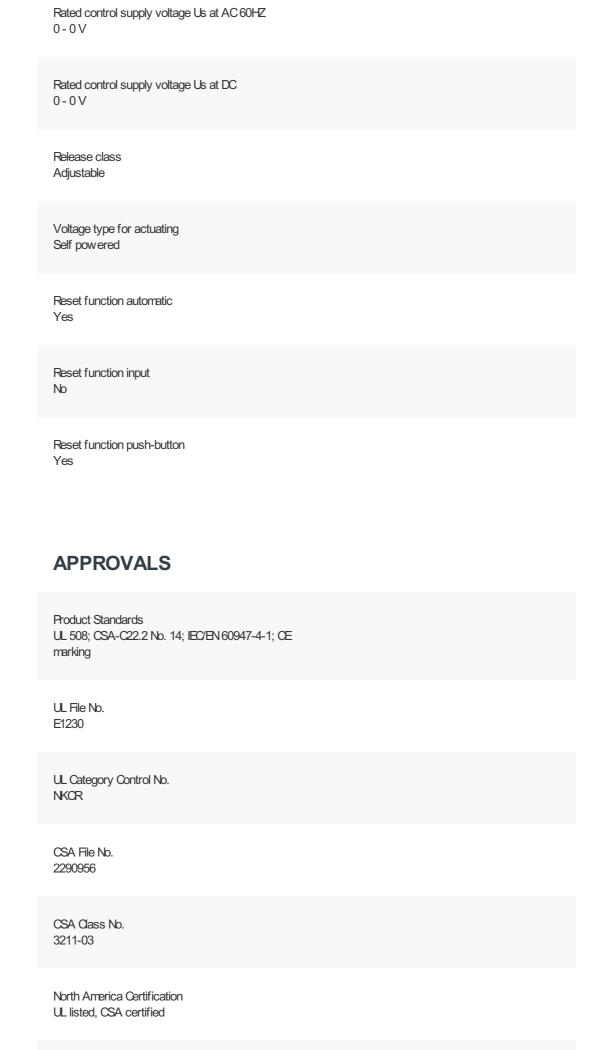
Number of auxiliary contacts as normally open contact

1

Number of auxiliary contacts as change-over contact

0

Rated control supply voltage Us at AC 50HZ 0 - 0 V $\,$



Specially designed for North America No

Suitable for Branch circuits

Max. Voltage Rating 600 V AC

Degree of Protection IEC: IP20, UL/CSA Type: -

CHARACTERISTICS

Characteristic curve



DIMENSIONS









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