101446 DILM32-XTEY20(RA24)	
Overview Specific	cations Resources
Delivery program	DELIVERY PROGRAM
Technical data	Product range Accessories
Design verification as per IEC/EN 61439	Accessories Timer modules
Technical data ETIM 7.0	Description For star-delta applications Cannot be combined with top mounting auxiliary contacts Incl. suppressor circuits
Approvals	Us 24 V AC/DC
Dimensions	Time range Changeover time 1 - 30 s Changeover delay 50 ms
	For use with DILM7 - DILM38 DILMP20

DILMP32-DILMP45 DILA DILMF7 DILMF11 DILMF14 DILMF25 DILMF32

Contact sequence ŀ€\

TECHNICAL DATA

General

Standards DIN EN 61812, IEC/EN 60947, VDE 0660, UL, CSA

Lifespan, mechanical AC operated [Operations] 3×10^6

Lifespan, mechanical DC operated [Operations] 3 x 10⁶

Climatic proofing Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30

Ambient temperature Open -25 - +60 °C

Ambient temperature Enclosed - 25 - 40 °C

Ambient temperature Storage - 40 - 80 °C

Mounting position As required, except suspended Mechanical shock resistance (IEC/EN 60068-2-27) Half-sinusoidal shock, 10 ms N/O contact 6 g

Mechanical shock resistance (IEC/EN 60068-2-27) Half-sinusoidal shock, 10 ms N/C contact 6 g

Degree of Protection IP20

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

Weight 0.08 kg

Terminal capacities Solid 1 x (0.75 - 2.5) 2 x (0.75 - 1.5) mm²

Terminal capacities Flexible with ferrule $1 \times (0.75 - 1.5)$ $2 \times (0.75 - 1.5)$ mm²

Terminal capacities Solid or stranded 18 - 14 AWG

Terminal screw MB.5

Pozidriv screwdriver 2 Size

Standard screw driver 0.8 x 5.5 1 x 6 mm

Max. tightening torque 1.2 Nm

Contacts

Rated impulse withstand voltage $\left[U_{\text{Imp}} \right]$ 4000 V AC

 $\label{eq:constraint} \begin{aligned} & \text{Overvoltage category/pollution degree} \\ & \text{II}/3 \end{aligned}$

Rated insulation voltage [U] 250 V AC

Rated operational voltage [U_e] 250 V

Rated operational current [le] AC-15 220 V 230 V 240 V [le] 3 A

Rated operational current [le] DC-13 DC-13 L/R- 15 ms Contacts in series: 1 [24 V] 1 A

Rated operational current [le] DC-13 DC-13 L/R- 15 ms Contacts in series: 1 [60 V] 0.2 A

Rated operational current [le] DC-13 DC-13 L/R- 15 ms Contacts in series: 1 [110 V] 0.2 A

Rated operational current [le] DC-13 DC-13 L/R- 15 ms Contacts in series: 1 [220 V] 0.1 A

Rated operational current [I_e]

DC-13 DC L/R □ 50 ms Contacts in series: 1 [24 V] 1 A

Rated operational current [le] DC-13 DC L/R [] 50 ms Contacts in series: 1 [110 V] 0.2 A

Rated operational current [Ie] DC-13 DC L/R \Box 50 ms Contacts in series: 1 [220 V] 0.1 A

Rated operational current [le] DC-13 DC-13 L/R- 300 ms Contacts in series: 1 [24 V] 1 A

Rated operational current [le] DC-13 DC-13 L/R- 300 ms Contacts in series: 1 [60 V] 0.2 A

Rated operational current [le] DC-13 DC-13 L/R- 300 ms Contacts in series: 1 [110 V] 0.2 A

Rated operational current [le] DC-13 DC-13 L/R- 300 ms Contacts in series: 1 [220 V] 0.1 A Safe isolation to EN 61140 between coil and auxiliary contacts 250 V AC

Safe isolation to EN 61140 between the auxiliary contacts 250 V AC

Conventional thermal current [Ith] 4 A

Short-circuit rating without welding max. fuse 4 A gG/gL

Magnet systems

Voltage tolerance Rck-up voltage AC operated [Rck-up] 0.85 - 1.1 x U_c

Voltage tolerance Rck-up voltage DC operated [Rck-up] [Rck-up] 0.7 - 1.2 x U_c

Pow er consumption 60 °C [Sealing] 2 VA

Power consumption AC operated [Sealing] 1.8 W

duty factor 100 % DF

Maximum operating frequency Max. operating frequency 3600 Ops/h

Naximum operating frequency Can be combined with auxiliary contact 360 Ops./h Conventional thermal current $I_{th} = I_e AC-1$ On-delayed < 50 ms

Conventional thermal current I_{th} = $I_{\rm e}$ AC-1 Off-delayed < 200 ms

AC operated 50 Hz [Deviation] < 5~%

Recovery time (after 100% time delay) 70 ms

contact changeover time DILNB2-XTEE11/DILNB2-XTED11 [t_u] 10 ms

contact changeover time DILVB2-XTEY20 $[t_{\rm u}]$ 50 ms

Notes

Notes

For rated operational current: Making and breaking conditions to DC-13, L/R constant as stated Max. fuses for short-circuit protection: Transparent overlay "Fuses" for time/current characteristics (please enquire) For pick-up voltage, DC operated:Pure DC, AC bridge rectifier or smoothed double-wave rectification.

Rating data for approved types

Auxiliary contacts Filot Duty AC operated B300

Auxiliary contacts Filot Duty DC operated R300 Auxiliary contacts General Use AC 240 V

Auxiliary contacts General Use AC 5 A

Auxiliary contacts General Use DC 24 V

Auxiliary contacts General Use DC 5 A

Short Orcuit Ourrent Rating Basic Rating SOOR 5 kA

Short Orcuit Ourrent Rating Basic Rating max. Fuse 125 A

Short Orcuit Ourrent Rating Basic Rating max. OB 125 A

Short Circuit Current Rating 480 V High Fault SCCR (fuse) 10/100 kA

Short Orcuit Ourrent Rating 480 V High Fault max. Fuse 125/70 Class J A

Short Circuit Current Rating 480 V High Fault SCCR (CB) 10/65 kA Short Circuit Current Rating 480 V High Fault max. CB 50/32 A

Short Circuit Current Rating 600 V High Fault SCCR (fuse) 10/100 kA

Short Circuit Current Rating 600 V High Fault max. Fuse 125/125 Class J A

Short Circuit Current Rating 600 V High Fault SCCR (CB) 10/22 kA

Short Circuit Current Rating 600 V High Fault max. CB 50/32 A

DESIGN VERIFICATION AS PER IEC/EN 61439

Technical data for design verification

Rated operational current for specified heat dissipation $[I_{\text{N}}]$ 0 A

Heat dissipation per pole, current-dependent $[\mathsf{R}_{id}]$ 0 W

Equipment heat dissipation, current-dependent $[\mathsf{P}_{\mathsf{id}}]$ 0 W

Static heat dissipation, non-current-dependent $[\mathrm{P}_{\mathrm{vs}}]$ 1.8 W

Heat dissipation capacity $[P_{\text{diss}}]$ 0 W

Operating ambient temperature min. -25 °C

Operating ambient temperature max. +60 °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 Neets the product standard's requirements.

10.2 Strength of materials and parts10.2.3.2 Verification of resistance of insulating materials to normal heatMeets 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 Neets the product standard's requirements.

10.2 Strength of materials and parts10.2.4 Resistance to ultra-violet (UV) radiationMeets 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 Mechanical 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 properties10.9.2 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 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

Relays (EG000019) / Timer block (EC002060)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Component for low-voltage switching technology / Timer block attachment (ecl@ss10.0.1-27-37-13-08 [ACN996011])

Switching function Other

Setting time 1 - 30 s

Number of contacts as normally open contact 2

Number of contacts as normally closed contact 0

Number of contacts as change-over contact 0

Operating principle Electronic

APPROVALS

Product Standards IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE marking UL File No. E29184

UL Category Control No. NKCR

CSA File No. 012528

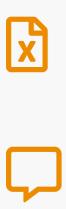
CSA Class No. 3211-03

North America Certification UL listed, CSA certified

DIMENSIONS







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