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DULM9/21(230V50HZ,240V60HZ) - Reversing contactor combination, 380 V 400 V: 4 kW, 230 V 50 Hz, 240 V 60 Hz, AC operation



278086 DIULM9/21(230V50HZ,240V60HZ) **Overview Specifications Resources**



278086 DIULM9/21(230V50HZ,240V60HZ)

Reversing contactor combination, 380 V 400 V: 4 kW, 230 V 50 Hz, 240 V 60 Hz, AC operation Alternate Catalog No. XTCR009B21F 4130465

EL-Nummer (Norway)

Reversing contactor combination, Application: Contactor combinations for starting motors with two directions of rotation, Accessories: DIUL reversing combinations, Utilization category: NAC-3: Normal AC induction motors: starting, switch off during running, AC-4: Normal AC induction motors: starting, plugging, reversing, inching, Rated operational current AC-3 380 V 400 V: le= 9 A, Max. rating for threephase motors, 50 - 60 Hz AC-3 220 V 230 V: P= 2.5 kW, 380 V 400 V: P= 4 kW, 660 V 690 V: P= 4.5 kW, Actuating voltage: 230 V 50 Hz, 240 V 60 Hz, Voltage AC/DC: AC operation, Notes: Also suitable for motors with efficiency class IE3

Delivery program

Design verification as per IEC/EN 61439

- Technical data ETIM 7.0
- Approvals
- Characteristics
- Dimensions

Delivery program

Product range Contactor combinations Application Contactor combinations for starting motors with two directions of rotation Accessories **DIUL** reversing combinations Utilization category NAC-3: Normal AC induction motors: starting, switch off during running AC-4: Normal AC induction motors: starting, plugging, reversing, inching



Also suitable for motors with efficiency class IE3. Rated operational current [le] AC-3380 V 400 V [le] 9 A Max. rating for three-phase motors, 50 - 60 Hz AC-3220 V 230 V [P] 2.5 kW AC-3380 V 400 V [P] 4 kW AC-3660 V 690 V [P] 4.5 kW AC-4220 V 230 V [P] 1.5 kW

AC-4380 V 400 V [P] 2.5 kW AC-4660 V 690 V [P] 3.6 kW Actuating voltage 230 V 50 Hz, 240 V 60 Hz Voltage AC/DC **AC** operation Individual components of the combination Contactor Q11 DILM9-01 + DILA-XHI20 Part no. Contactor Q12 DILM9-01 + DILA-XHI20 Part no. Spare auxiliary contacts Q11 63 64 Q12 63 64 Mechanical interlock **Orcuit diagram**

Contact sequence

Design verification as per IEC/EN 61439

Technical data for design verification Rated operational current for specified heat dissipation [In] 9A Heat dissipation per pole, current-dependent [Pvid] 0.28 W Equipment heat dissipation, current-dependent [Pvid] 0.84 W Static heat dissipation, non-current-dependent [Pvs] 1.4 W Heat dissipation capacity [Pdiss] 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 parts 10.2.2 Corrosion resistance Meets the product standard's requirements. 10.2 Strength of materials and parts10.2.3.1 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 parts10.2.3.3 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 parts10.2.4 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 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 Pow er-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) / Combination of contactors (EC000010) Electric engineering, automation, process control engineering / Low-voltage switch technology / Contactor (LV) / Combination of contactor (ecl@ss10.0.1-27-37-10-09 [AGZ572014]) Function Reversing safety Rated control supply voltage Us at AC 50HZ 230 - 230 V Rated control supply voltage Us at AC 60HZ 240 - 240 V Rated control supply voltage Us at DC 0-0V Voltage type for actuating AC Rated operation current le at AC-3, 400 V 9 A Rated operation power at AC-3, 400 V 4 kW Rated operation power NEVIA 3.7 kW Type of electrical connection of main circuit Screw connection Degree of protection (IP) IP20 Degree of protection (NEVA) Other

Approvals

Product Standards IEC/EN 60947-4-1; UL 60947-4-1; CSA - C22.2 No. 60947-4-1-14; CE marking UL File No. E29096 UL Category Control No. NLDX CSA File No. 012528 CSA Class No. 2411-03, 3211-04 North America Certification UL listed, CSA certified Specially designed for North America No

Characteristics



Accessories 1: Overload relay

Dimensions

Basic unit with auxiliary contact module

CAD data

- Product-specific CAD data
- (Web) • 3D Preview (Web)

DWG files

• DA-CD-diul_bg1 File (Web)

edz files

• DA-CE-ETN.DIULM9_21(230V50HZ,240V60HZ) File (Web)

Step files

• DA-CS-diul_bg1 File (Web)

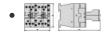
3D drawing

2120DRW-1 Line drawing Reversing combination, size 1

Product photo

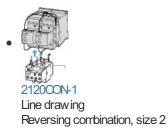


Dimensions single product

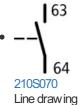


212X008 Line drawing Reversing combination

Explosion drawing



Wiring diagram



Line drawing Contactor contact representation



Line drawing Reversing contactor circuit diagram for frame size 2 control

Instruction Leaflet

 Wiring for contactor combinations (IL03407030Z) Asset former AWA2100-2139 (PDF, 05/2018, multilingual)
 DILM7 - DILM15, XTCE007B - XTCE012B Contactors: complete devices (IL03407043Z) Asset former AWA2100-2291

former AV/A2100-2291 (PDF, 05/2018, multilingual)

Standards



Declaration of Conformity

EU

 DILM7-DILM15 - contactors & contactor combinations (DA-DC-00004095) Asset (PDF)

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