

Reversing contactor combination, 380 V 400 V: 5.5 kW, 24 V DC, DC operation
Part no. DIULM12/21(24VDC)
107023

| General specifications | | |
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| Product name | | Eaton Moeller® series DIUL contactor combination |
| Part no. | | DIULM12/21(24VDC) |
| EAN | | 4015081067916 |
| Product Length/Depth | | 117 millimetre |
| Product height | | 68 millimetre |
| Product width | | 90 millimetre |
| Product weight | | 0.718 kilogram |
| Compliances | | CE Marked RoHS Compliant |
| Certifications | | UL Category Control No.: NLDX IEC/EN 60947-4-1 CE UL File No.: E29096 CSA File No.: 012528 CSA-C22.2 No. 60947-4-1-14 UL 60947-4-1 CSA Class No.: 2411-03, 3211-04 UL Listed CSA Certified CSA UL |
| Product Tradename | | DIUL |
| Product Type | | Contactor combination |
| Product Sub Type | | None |
| Catalog Notes | | IE3-fähige Geräte sind mit dem Logo auf der Verpackung gekennzeichnet. |
| Features & Functions | | |
| Features | | Mechanical interlock |
| Functions | | Reversing safety |
| General information | | |
| Application | | Contactor combinations for starting motors with two directions of rotation |
| Degree of protection | | IP20 NEMA Other |
| Product category | | Contactor combinations |
| Suitable for | | Also motors with efficiency class IE3 |
| Utilization category | | AC-3: Normal AC induction motors: starting, switch off during running AC-4: Normal AC induction motors: starting, plugging, reversing, inching |
| Voltage type | | DC |
| Climatic environmental conditions | | |
| Ambient operating temperature - min | | -25 °C |
| Ambient operating temperature - max | | 60 °C |
| Terminal capacities | | |
| Terminals | | Screw terminals |
| Electrical rating | | |
| Rated operational current (Ie) at AC-1, 380 V, 400 V, 415 V | | 12 A |
| Rated operational current (Ie) at AC-3, 380 V, 400 V, 415 V | | 12 A |
| Rated operational power at AC-3, 380/400 V, 50 Hz | | 5.5 kW |
| Rated operational power at AC-3, 690 V, 50 Hz | | 6.5 kW |
| Rated operational power at AC-4, 220/230 V, 50 Hz | | 2 kW |
| Rated operational power at AC-4, 660/690 V, 50 Hz | | 4.4 kW |
| Magnet system | | |
| Duty factor | | 100 % |
| Rated control supply voltage (Us) at AC, 50 Hz - min | | 0 V |

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| Rated control supply voltage (Us) at AC, 50 Hz - max | | 0 V |
| Rated control supply voltage (Us) at AC, 60 Hz - min | | 0 V |
| Rated control supply voltage (Us) at AC, 60 Hz - max | | 0 V |
| Rated control supply voltage (Us) at DC - min | | 24 V |
| Rated control supply voltage (Us) at DC - max | | 24 V |
| Communication | | |
| Connection | | Screw connection |
| Contacts | | |
| Number of auxiliary contacts (normally closed contacts) | | 0 |
| Number of auxiliary contacts (normally open contacts) | | 2 |
| Design verification | | |
| Equipment heat dissipation, current-dependent Pvid | | 2.4 W |
| Heat dissipation capacity Pdis | | 0 W |
| Heat dissipation per pole, current-dependent Pvid | | 0.8 W |
| Rated operational current for specified heat dissipation (In) | | 12 A |
| Static heat dissipation, non-current-dependent Pvs | | 4.5 W |
| 10.2.2 Corrosion resistance | | Meets the product standard's requirements. |
| 10.2.3.1 Verification of thermal stability of enclosures | | Meets the product standard's requirements. |
| 10.2.3.2 Verification of resistance of insulating materials to normal heat | | Meets the product standard's requirements. |
| 10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects | | Meets the product standard's requirements. |
| 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. |
| 10.8 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. |
| 10.9.4 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 9.0

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| 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@ss13-27-37-10-09 [AGZ572019]) | | |
| Function | | Reversing contactor |
| Rail mounting possible | | No |
| Rated control supply voltage AC 50 Hz | V | 0 - 0 |
| Rated control supply voltage AC 60 Hz | V | 0 - 0 |
| Rated control supply voltage DC | V | 24 - 24 |
| Voltage type for actuating | | DC |
| Number of normally closed contacts as main contact | | 0 |
| Number of normally open contacts as main contact | | 6 |
| Type of electrical connection of main circuit | | Screw connection |
| Voltage type (operating voltage) | | AC |
| Operating voltage AC 50 Hz | V | 24 - 690 |

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| Operating voltage AC 60 Hz | V | 24 - 690 |
| Operating voltage DC | V | 0 - 0 |
| Rated operation current I _e at AC-1, 400 V | A | 12 |
| Rated operation current I _e at AC-3, 400 V | A | 12 |
| Rated operation power at AC-3, 400 V | kW | 5.5 |
| Rated operation power NEMA | kW | 7.4 |
| Number of auxiliary contacts as normally closed contact | | 0 |
| Number of auxiliary contacts as normally open contact | | 2 |
| Number of auxiliary contacts as change-over contact | | 0 |
| Type of electrical connection for auxiliary- and control current circuit | | Screw connection |
| Degree of protection (IP) | | IP20 |
| Degree of protection (NEMA) | | Other |
| Width | mm | 90 |
| Height | mm | 68 |
| Depth | mm | 117 |