# DATASHEET - DILA-XHIC13

**Auxiliary contact module, 4 pole, Ith= 16 A, 1 N/O, 3 NC, Front fixing, Spring-loaded terminals, DILA, DILM7 - DILM38**

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| **Part no.** | **DILA-XHIC13** |
| | **276531** |
| **EL Number (Norway)** | **4110272** |

## General specifications

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| Product name | Eaton Moeller® series DILA Accessory Auxiliary contact module |
| Part no. | DILA-XHIC13 |
| EAN | 4015082765316 |
| Product Length/Depth | 55 millimetre |
| Product height | 38 millimetre |
| Product width | 36 millimetre |
| Product weight | 0.057 kilogram |
| Certifications | CE<br>UL<br>VDE 0660<br>CSA-C22.2 No. 14-05<br>IEC/EN 60947-4-1<br>CSA<br>CSA File No.: 012528<br>IEC/EN 60947<br>UL Category Control No.: NKCR<br>UL 508<br>UL File No.: E29184<br>CSA Class No.: 3211-03 |
| Product Tradename | DILA |
| Product Type | Accessory |
| Product Sub Type | Auxiliary contact module |
| Catalog Notes | This item can only be ordered until December 31, 2023 with a maximum delivery date of May 31, 2024. |

## Features & Functions

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| Features | Interlocked opposing contacts within an auxiliary contact module (according to IEC 60947-5-1 Annex L) |
| Functions | For standard applications |
| Fitted with: | Interlocked opposing contacts<br>Switching elements according to EN 50005 |
| Number of poles | Four-pole |
| Electric connection type | Spring clamp connection |

## General information

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| Degree of protection | IP20 |
| Shock resistance | 5 g, N/C auxiliary contact, Basic unit with auxiliary contact module, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms<br>7 g, N/O auxiliary contact, Basic unit with auxiliary contact module, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms |
| Lifespan, electrical | 1,300,000 Operations (at 230 V, AC-15, 3 A) |
| Lifespan, mechanical | 10,000,000 Operations (AC operated)<br>10,000,000 Operations (DC operated) |
| Model | Top mounting |
| Mounting method | Front fastening |
| Operating frequency | 9000 Operations/h |
| Overvoltage category | III |
| Pollution degree | 3 |
| Protection | Finger and back-of-hand proof, Protection against direct contact when actuated from front (EN 50274) |
| Rated impulse withstand voltage (Uimp) | 6000 V AC |
| Type | Front mounting auxiliary contact |

## Climatic environmental conditions

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| Ambient operating temperature - min | -25 °C |
| Ambient operating temperature - max | 60 °C |

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| Ambient operating temperature (enclosed) - min | | 25 °C |
| Ambient operating temperature (enclosed) - max | | 40 °C |
| Ambient storage temperature - min | | 40 °C |
| Ambient storage temperature - max | | 80 °C |
| Climatic proofing | | Damp heat, cyclic, to IEC 60068-2-30<br>Damp heat, constant, to IEC 60068-2-78 |

## Terminal capacities

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| Terminal capacity (flexible with ferrule) | | 2 x (0.75 - 1.5) mm², Spring-loaded terminals<br>1 x (0.75 - 1.5) mm², Spring-loaded terminals |
| Terminal capacity (solid) | | 1 x (0.75 - 2.5) mm², Spring-loaded terminals<br>2 x (0.75 - 2.5) mm², Spring-loaded terminals |
| Terminal capacity (solid/stranded AWG) | | 18 - 14 |
| Screw size | | M3.5, Terminal screw |
| Screwdriver size | | 0.6 x 3.5 mm, Spring-loaded terminals |

## Electrical rating

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| Conventional thermal current ith at 60°C (3-pole, open) | | 16 A |
| Rated operational current (Ie) | | 6 A at 60 V, DC L/R ≤ 15 ms (with 1 contact in series)<br>0.5 A at 110 V, DC L/R ≤ 50 ms (with 3 contacts in series)<br>5 A at 220 V, DC L/R ≤ 15 ms (with 3 contacts in series)<br>10 A at 24 V, DC L/R ≤ 15 ms (with 1 contact in series)<br>1 A at 220 V, DC L/R ≤ 15 ms (with 1 contact in series)<br>0.25 A at 220 V, DC L/R ≤ 50 ms (with 3 contacts in series)<br>6 A at 110 V, DC L/R ≤ 15 ms (with 3 contacts in series)<br>2.5 A at 24 V, DC L/R ≤ 50 ms (with 3 contacts in series)<br>10 A at 60 V, DC L/R ≤ 15 ms (with 2 contacts in series)<br>3 A at 110 V, DC L/R ≤ 15 ms (with 1 contact in series)<br>1 A at 60 V, DC L/R ≤ 50 ms (with 3 contacts in series) |
| Rated operational current (Ie) at AC-15, 220 V, 230 V, 240 V | | 4 A |
| Rated operational current (Ie) at AC-15, 380 V, 400 V, 415 V | | 4 A |
| Rated operational current (Ie) at AC-15, 500 V | | 1.5 A |
| Rated operational current (Ie) at DC-13, 24 V | | 2.5 A |
| Rated operational current (Ie) at DC-13, 60 V | | 1 A |
| Rated operational current (Ie) at DC-13, 110 V | | 0.5 A |
| Rated operational current (Ie) at DC-13, 220 V, 230 V | | 0.25 A |
| Rated insulation voltage (Ui) | | 690 V |
| Rated operational voltage (Ue) at AC - max | | 500 V |
| Short-circuit protection rating | | Max. 10 A gG/gL, Fuse, Without welding, Auxiliary contacts |
| Short-circuit protection rating without welding | | 10 A gG/gL, 500 V, Max. Fuse, Contacts |
| Safe isolation | | 400 V AC, Between auxiliary contacts, According to EN 61140<br>400 V AC, Between coil and auxiliary contacts, According to EN 61140 |
| Switching capacity (auxiliary contacts, general use) | | 1 A, 250 V DC, (UL/CSA)<br>10 A, 600 V AC, (UL/CSA) |
| Switching capacity (auxiliary contacts, pilot duty) | | P300, DC operated (UL/CSA)<br>A600, AC operated (UL/CSA) |

## Communication

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| Connection type | | Spring-loaded terminals |

## Contacts

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| Code number | | 35 in combination with DILA(C)-22<br>44 in combination with DILA(C)-31<br>53E in combination with DILA(C)-40 |
| Control circuit reliability | | λ < 5 x 10-7 (1 failure at 2,000,000 operations for U# = 24 V DC, Umin = 17 V, Imin = 5.4 mA) |
| Number of contacts (change-over contacts) | | 0 |
| Number of contacts (normally closed contacts) | | 3 |
| Number of contacts (normally open contacts) | | 1 |

## Design verification

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| Equipment heat dissipation, current-dependent Pvid | | 0 W |
| Heat dissipation capacity Pdiss | | 0 W |
| Heat dissipation per pole, current-dependent Pvid | | 0.16 W |
| Rated operational current for specified heat dissipation (In) | | 4 A |
| Static heat dissipation, non-current-dependent Pvs | | 0 W |
| 10.2.2 Corrosion resistance | | Meets the product standard's requirements. |

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| 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) / Auxiliary contact block (EC000041) | | |
| Electric engineering, automation, process control engineering / Low-voltage switch technology / Component for low-voltage switching technology / Auxiliary switch block (ecl@ss13-27-37-13-02 [AKN342018]) | | |
| Number of contacts as change-over contact | | 0 |
| Number of contacts as normally open contact | | 1 |
| Number of contacts as normally closed contact | | 3 |
| Number of fault-signal switches | | 0 |
| Rated operation current Ie at AC-15, 230 V | A | 4 |
| Type of electric connection | | Spring clamp connection |
| Model | | Clip-on |
| Mounting method | | Front fastening |
| Lamp holder | | None |