## DATASHEET - DILA-XHIR22

Auxiliary contact module, 4 pole, lth= 16 A, 2 N/0, 2 NC, Microswitch, Front fixing, Screw terminals, DILA, DILM7 - DILM38

| Part no. | DILA-XHIR22 |
| :--- | :--- |
| EL Number | 139580 |
| (Norway) | $\mathbf{4 1 1 0 2 2 3}$ |

## General specifications

| Product name |
| :--- |
| Part no. |
| EAN |
| Product Length/Depth |
| Product height |
| Product width |
| Product weight |
| Certifications |
|  |
| Product Tradename |
| Product Type |
| Product Sub Type |
| Catalog Notes |


| Features \& Functions |  |
| :---: | :---: |
| Features | Interlocked opposing contacts within an auxiliary contact module (according to IEC 60947-5-1 Annex L) |
| Functions | For electronic applications For standard applications |
| Fitted with: | Switching elements according to EN 50005 Interlocked opposing contacts |
| Number of poles | Four-pole |
| Electric connection type | Screw connection |
| General information |  |
| Degree of protection | IP20 |
| Shock resistance | 5 g , $\mathrm{N} / \mathrm{C}$ auxiliary contact, Basic unit with auxiliary contact module, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms $7 \mathrm{~g}, \mathrm{~N} / \mathrm{O}$ 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 $230 \mathrm{~V}, \mathrm{AC}-15,3 \mathrm{~A}$ ) <br> 1,300,000 Operations (at DC-12, $24 \mathrm{~V} / 50 \mathrm{~mA}$ ) |
| Lifespan, mechanical | 10,000,000 Operations (DC operated) 10,000,000 Operations (AC 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)

## Type

## Climatic environmental conditions

Ambient operating temp
Ambient operating temp
Ambient operating temp
Ambient operating temp
Ambient storage temper
Ambient storage temper
Climatic proofing
rminal capacities
Terminal capacity (flexible with ferrule)

Terminal capacity (solid)

Terminal capacity (solid/stranded AWG)
Screw size
Screwdriver size

Tightening torque

## Electrical rating

Conventional thermal current ith at $60^{\circ} \mathrm{C}$ (3-pole, open)
Conventional thermal current ith of auxiliary contacts (1-pole, open)
Rated operational current (le)

Rated operational current (le) - min
Rated operational current (le) at AC-15, $220 \mathrm{~V}, 230 \mathrm{~V}, 240 \mathrm{~V}$
Rated operational current (le) at AC-15, $380 \mathrm{~V}, 400 \mathrm{~V}, 415 \mathrm{~V}$
Rated operational current (le) at AC-15, 500 V
Rated operational current (le) at DC-13, 24 V
Rated operational current (le) at DC-13, 60 V
Rated operational current (le) at DC-13, 110 V
Rated operational current (le) at DC-13, $220 \mathrm{~V}, 230 \mathrm{~V}$
Rated operational voltage (Ue) - min
Rated operational voltage (Ue) at DC - max
Rated insulation voltage (Ui)
Rated operational voltage (Ue) at AC - max
Short-circuit protection rating
Short-circuit protection rating without welding

Safe isolation

Switching capacity (auxiliary contacts, general use)

## Communication

Connection type

## Contacts

Code number

6000 V AC
Front mounting auxiliary contact

Damp heat, constant, to IEC 60068-2-78
Damp heat, cyclic, to IEC 60068-2-30
$2 \times(0.75-1.5) \mathrm{mm}^{2}$, Screw terminals
$1 \times(0.75-1.5) \mathrm{mm}^{2}$, Screw terminals
$2 \times(0.75-2.5) \mathrm{mm}^{2}$, Screw terminals $1 \times(0.75-2.5) \mathrm{mm}^{2}$, Screw terminals

18-14, Screw terminals
M3.5, Terminal screw
$0.8 \times 5.5 / 1 \times 6 \mathrm{~mm}$, Terminal screw, Standard screwdriver 2, Terminal screw, Pozidriv screwdriver
1.2 Nm, Screw terminals

16 A
0.5 A
0.25 A at $220 \mathrm{~V}, \mathrm{DCL} / \mathrm{R} \leq 50 \mathrm{~ms}$ (with 3 contacts in series)
2.5 A at $24 \mathrm{~V}, \mathrm{DCL} / \mathrm{R} \leq 50 \mathrm{~ms}$ (with 3 contacts in series) 0.1 A at $\mathrm{AC}-12,240 \mathrm{~V}$
0.3 A at DC-12, 60 V

10 A at $60 \mathrm{~V}, \mathrm{DC} L / \mathrm{R} \leq 15 \mathrm{~ms}$ (with 2 contacts in series) 5 A at $220 \mathrm{~V}, \mathrm{DCL} / \mathrm{R} \leq 15 \mathrm{~ms}$ (with 3 contacts in series) 1 A at $60 \mathrm{~V}, \mathrm{DCL} / \mathrm{R} \leq 50 \mathrm{~ms}$ (with 3 contacts in series) 0.5 A at $110 \mathrm{~V}, \mathrm{DCL} / \mathrm{R} \leq 50 \mathrm{~ms}$ (with 3 contacts in series) 3 A at $110 \mathrm{~V}, \mathrm{DCL} / \mathrm{R} \leq 15 \mathrm{~ms}$ (with 1 contact in series) 1 A at $220 \mathrm{~V}, \mathrm{DCL} / \mathrm{R} \leq 15 \mathrm{~ms}$ (with 1 contact in series) 6 A at $110 \mathrm{~V}, \mathrm{DCL} / \mathrm{R} \leq 15 \mathrm{~ms}$ (with 3 contacts in series) 0.5 A at DC-12, 24 V

10 A at $24 \mathrm{~V}, \mathrm{DCL} / \mathrm{R} \leq 15 \mathrm{~ms}$ (with 1 contact in series)
6 A at $60 \mathrm{~V}, \mathrm{DCL} / \mathrm{R} \leq 15 \mathrm{~ms}$ (with 1 contact in series)
1 A
4 A
4 A
1.5 A
2.5 A

1 A
0.5 A
0.25 A

3 V
60 V
690 V
500 V
Max. $10 \mathrm{AgG} / \mathrm{gL}$, Fuse, Without welding, Auxiliary contacts
1.6 A gG/gL, Max. Fuse, Electrical specifications for microswitch auxiliary contacts 53-54 and 81-82
$10 \mathrm{AgG} / \mathrm{gL}, 500 \mathrm{~V}$, Max. Fuse, Contacts
400 V AC, Between auxiliary contacts, According to EN 61140 400 V AC, Between coil and auxiliary contacts, According to EN 61140
0.1 A, 250 V DC, (UL/CSA)

Screw connection

33 in combination with DILA(C)-22
42 in combination with DILA(C)-31
51 E in combination with DILA(C)-40
$\lambda<5.3 \times 10-8$ (1 failure at $19,000,000$ operations for U\# = $24 \mathrm{~V} D C, U \min =17 \mathrm{~V}, \mathrm{Imin}=$ $1 \mathrm{~mA})$

Number of contacts (change-over contacts)
Number of contacts (normally closed contacts)
Number of contacts (normally open contacts)
2

## Design verification

| 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. |
| 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

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 2
Number of contacts as normally closed contact 2
Number of fault-signal switches 0
Rated operation current le at AC-15, 230 V A A 4
Type of electric connection Screw connection
Model
Mounting method
Lamp holder

Clip-on
Front fastening
None

