DATASHEET - 22DDILE



Auxiliary contact module, 4 pole, 1 N/O, 1 N/OE, 1 NC, 1 NCL, Front fixing, Screw terminals, DILE(E)M, DILER



| Part no. | 22DDILE |
|-------------------|------------|
| Catalog No. | 049823 |
| Alternate Catalog | XTMCXFAL22 |
| No. | |
| EL-Nummer | 4110173 |
| (Norway) | |

Delivery program

| Accessories | | | Auxiliary contact modules |
|----------------------------------------|----------------|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Function | | | for standard applications |
| Number of poles | | | 4 pole |
| Connection technique | | | Screw terminals |
| Rated operational current | | | |
| AC-15 | | | |
| 220 V 230 V 240 V | Ι _e | А | 4 |
| 380 V 400 V 415 V | ۱ _e | А | 2 |
| Contacts | | | |
| N/O = Normally open | | | 1 N/O |
| N/O _E : NO early-make | | | 1 N/O _E |
| N/C = Normally closed | | | 1 NC |
| NC _L =NC late-break | | | 1 NCL |
| Mounting type | | | Front fixing |
| Contact sequence | | | $- \begin{array}{c} 57 \\ - \\ 58 \\ 66 \\ 72 \end{array} \begin{array}{c} 71 \\ - \\ 58 \\ 66 \\ 72 \end{array} \begin{array}{c} 83 \\ - \\ 84 \end{array}$ |
| For use with | | | DILEM-10(-G)() DILEM-01(-G)() DILEM-4(-G)() DILER31(-G) DILER31(-G) DILEEM-10(-G)() DILEEM-01(-G)() DILEM-10(-G)() DILEM12-01(-G)() |
| Instructions | | | Auxiliary contacts used as mirror contacts according to IEC/EN 60947-4-1 Appendix F (not N/C late open) |
| Code number and version of combination | | | |
| Distinctive number | | | 62 |
| with basic device | | | DILER-40(-G) |
| | | | 53 |
| with basic device | | | DILER-31(-G) |
| | | | 44 |
| with basic device | | | DILER-22 |

Technical data

| General | | | |
|----------------------------------------------|------------|-------------------|---------------------------------|
| Standards | | | IEC/EN 60947, VDE 0660, UL, CSA |
| Lifespan, mechanical | | | |
| AC operated | Operations | x 10 ⁶ | 10 |
| DC operated | Operations | x 10 ⁶ | 20 |
| Component lifespan at U _e = 240 V | | | |
| AC-15 | Operations | x 10 ⁶ | 0.2 |
| DC | | | |

| L/R = 50 ms: 2 contacts in series at I _e = 0.5 A Maximum operating frequency | Operations | x 10 ⁶ | |
|-----------------------------------------------------------------------------------------------------------|------------------|-------------------|---------------------------------------------------------------------------------|
| | Operations/h | | 9000 |
| Climatic proofing | | | Damp heat, constant, to IEC 60068-2-78 |
| | | | Damp heat, cyclic, to IEC 60068-2-30 |
| Ambient temperature | | | |
| Open | | °C | -25 - +50 |
| Enclosed | | °C | - 25 - 40 |
| Ambient temperature, storage | | °C | - 40 - 80 |
| Mounting position | | | |
| Mounting position | | | As required, except vertical with terminals A1/A2 at the bottom |
| Mechanical shock resistance (IEC/EN 60068-2-27) | | | |
| Half-sinusoidal shock, 10 ms | | | |
| Basic unit with auxiliary contact module | | g | |
| N/O contact | | g | 10 |
| N/C contact | | g | 8 |
| Degree of Protection | | | IP20 |
| Protection against direct contact when actuated from front (EN 50274) | | | Finger and back-of-hand proof |
| Weight | | kg | 0.04 |
| Terminal capacities | | mm ² | |
| Screw terminals | | | |
| Solid | | mm ² | 1 x (0.75 - 2.5) 2 x (0.75 - 2.5) |
| Flexible with ferrule | | mm ² | 1 x (0.75 - 1.5) 2 x (0.75 - 1.5) |
| Solid or stranded | | AWG | Single 18 – 14/Double 18 – 14 |
| Terminal screw | | | M3.5 |
| Pozidriv screwdriver | | Size | 2 |
| Standard screwdriver | | mm | 0.8 x 5.5 1 x 6 |
| Max. tightening torque | | Nm | 1.2 |
| Contacts Interlocked opposing contacts within an auxiliary contact module (to IEC 60947-5- Annex L) | -1 | | No |
| Rated impulse withstand voltage | U _{imp} | V AC | 6000 |
| Overvoltage category/pollution degree | mp | | III/3 |
| Rated insulation voltage | Ui | V AC | 690 |
| Rated operational voltage | U _e | VAC | 600 |
| Safe isolation to EN 61140 | Οų | 1710 | |
| between coil and auxiliary contacts | | V AC | 300 |
| between the auxiliary contacts | | V AC | 300 |
| Rated operational current | | A | |
| Conventional free air thermal current, 1 pole | | ~ | |
| Notes | | | At maximum permissible ambient air temperature. |
| Conv. thermal current | I _{th} | A | 10 |
| | 'n | ~ | |
| AC-15 | | ٨ | A |
| 220 V 230 V 240 V | l _e | A | 4 |
| 380 V 400 V 415 V | l _e | A | 2 |
| 500 V | l _e | A | 1.5 |
| DC current | | | |
| DC L/R ≦ 15 ms | | | Switch-on and switch-off conditions based on DC-13, time constant as specified. |
| Contacts in series: | | A | |
| 1 | 24 V | A | 2.5 |
| 2 | 60 V | A | 2.5 |
| 3 | 110 V | A | 1.5 |
| 3 | 220 V | A | 0.5 |
| | | | |

| | | (at U _e = 24 V DC, U _{min} = 17 V, I _{min} = 5.4 mA) |
|----------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|
| Short-circuit rating without welding | | |
| Maximum overcurrent protective device | | |
| 220 V 230 V 240 V | PKZM | 4 |
| 380 V 400 V 415 V | PKZM | 4 |
| Short-circuit protection maximum fuse | | |
| 500 V | A gG/g | L 6 |
| 500 V | A fast | 10 |
| Current heat loss at I _{th} | | |
| AC operated | W | 1.5 |
| DC operated | W | 1.5 |
| Current heat loss per auxiliary circuit at $\rm I_{e}$ (AC-15/230 V) | CO | 0.24 |
| Rating data for approved types | | |
| Auxiliary contacts | | |
| Pilot Duty | | |
| AC operated | | A600 |
| DC operated | | P300 |
| General Use | | |
| AC | v | 600 |
| AC | А | 10 |
| DC | V | 250 |
| DC | А | 0.5 |

Design verification as per IEC/EN 61439

| besign vermention as per reorem 01-05 | | | |
|------------------------------------------------------------------------------------------------------------------------|-------------------|----|----------------------------------------------------------------------------------------------------------------------------------|
| Technical data for design verification | | | |
| Rated operational current for specified heat dissipation | In | А | 4 |
| Heat dissipation per pole, current-dependent | P _{vid} | W | 0.24 |
| Equipment heat dissipation, current-dependent | P _{vid} | W | 0 |
| Static heat dissipation, non-current-dependent | P _{vs} | W | 0 |
| Heat dissipation capacity | P _{diss} | W | 0 |
| Operating ambient temperature min. | | °C | -25 |
| Operating ambient temperature max. | | °C | 50 |
| IEC/EN 61439 design verification | | | |
| 10.2 Strength of materials and parts | | | |
| 10.2.2 Corrosion resistance | | | Meets the product standard's requirements. |
| 10.2.3.1 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 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric 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 Insulation properties | | | |
| 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. |
| | | | |

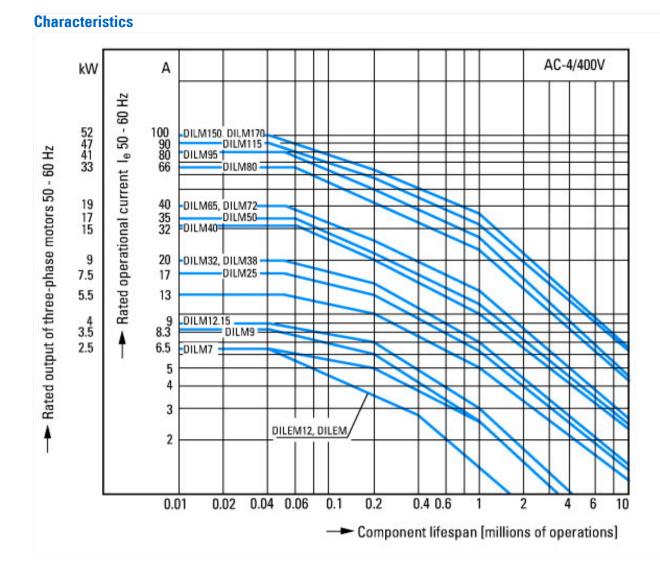
| 10.11 Short-circuit rating | Is the panel builder's responsibility. The specifications for the switchgear must be observed. |
|-------------------------------------|----------------------------------------------------------------------------------------------------------|
| 10.12 Electromagnetic compatibility | 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. |

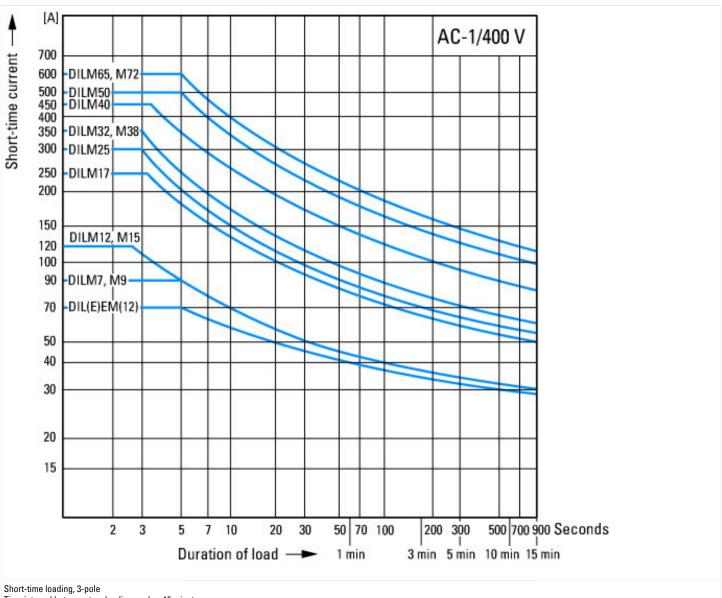
Technical data ETIM 7.0

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@ss10.0.1-27-37-13-02 [AKN342013]) 0 Number of contacts as change-over contact 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 А 4 Type of electric connection Screw connection Model Top mounting Mounting method Front fastening Lamp holder None

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 |
| Specially designed for North America | No |





Time interval between two loading cycles: 15 minutes

Dimensions

