



**Contactor,4kW/400V,DC operated**



Powering Business Worldwide™

**Part no. DILEM-01-G(24VDC)**

**Article no. 010343**

**Delivery programme**

|   |                |    |  |
|---|----------------|----|--|
| Product range   |                |    | Contactors   |
| Application   |                |    | Mini Contactors for Motors and Resistive Loads   |
| Subrange  |                |    | DILEM contactors   |
| Utilization category                                      |                |    | AC-1: Non-inductive or slightly inductive loads, resistance furnaces<br>AC-3: Squirrel-cage motors: starting, switching off during running<br>AC-4: Squirrel-cage motors: starting, plugging, reversing, inching |
| Connection technique                                      |                |    | Screw terminals  |
| Description   |                |    | With auxiliary contact   |
| Pole  |                |    | 3 pole   |
| Rated operational current                                 |                |    |  |
| AC-3  |                |    |  |
| 380 V 400 V   | $I_e$          | A  | 9  |
| AC-1  |                |    |  |
| Conventional free air thermal current, 3 pole, 50 - 60 Hz |                |    |  |
| Open  |                |    |  |
| at 40 °C  | $I_{th} = I_e$ | A  | 22   |
| enclosed  | $I_{th}$       | A  | 16   |
| Conventional free air thermal current, 1 pole             |                |    |  |
| open  | $I_{th}$       | A  | 50   |
| enclosed  | $I_{th}$       | A  | 40   |
| Max. rating for three-phase motors, 50 - 60 Hz            |                |    |  |
| AC-3  |                |    |  |
| 220 V 230 V   | P              | kW | 2.2  |
| 380 V 400 V   | P              | kW | 4  |
| 660 V 690 V   | P              | kW | 4  |
| AC-4  |                |    |  |
| 220 V 230 V   | P              | kW | 1.5  |
| 380 V 400 V   | P              | kW | 3  |
| 660 V 690 V   | P              | kW | 3  |
| Contacts  |                |    |  |
| N/C = Normally closed                                     |                |    | 1 N/C  |
| Contact sequence  |                |    |  |
| For use with  |                |    | ...DILE  |
| Actuating voltage   |                |    | 24 V DC  |
| Voltage AC/DC   |                |    | DC operation   |

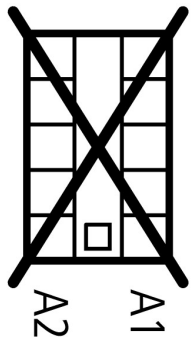
**Approvals**

Product Standards  
UL File No.  
UL CCN  
CSA File No.  
CSA Class No.  
NA Certification  
Specially designed for NA

IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE marking  
E29096  
NLDX  
012528  
3211-04  
UL listed, CSA certified  
No

**General**

|                             |  |        |                                 |
|-----------------------------|--|--------|---------------------------------|
| Standards                   |  |        | IEC/EN 60947, VDE 0660, CSA, UL |
| Maximum operating frequency |  | Ops./h |                                 |

|   |                  |                 |   |
|---|------------------|-----------------|---|
| Mechanical  |                  | Ops./h          | 9000  |
| Climatic proofing   |                  |                 | Damp heat, constant to IEC 60068-2-78<br>Damp heat, cyclic to IEC 60068-2-30  |
| Ambient temperature   |                  | °C              |   |
| Open  |                  | °C              | - 25 - 50   |
| Enclosed  |                  | °C              | - 25 - 40   |
| Mounting position   |                  |                 | As required except vertical with terminals A1/A2 at the bottom<br> |
| 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 without auxiliary contact module                           |                  |                 |   |
| Main contacts, make contacts  |                  | g               | 10  |
| Main contacts Make/break contacts                                     |                  | g               | 10 / 8  |
| Basic unit with auxiliary contact module                              |                  |                 |   |
| Main contacts make contact  |                  | g               |   |
| Make  |                  | g               | 10  |
| Auxiliary contacts Make/break contacts                                |                  | g               | 20 / 20   |
| Protection type   |                  |                 | IP20  |
| Protection against direct contact when actuated from front (EN 50274) |                  |                 | Finger and back-ofhand proof  |
| Weight  |                  | kg              | 0.17  |
| Terminal capacity of auxiliary and main contacts                      |                  |                 |   |
| Solid   |                  | mm <sup>2</sup> | 1 x (0.75 - 2.5)<br>2 x (0.75 - 2.5)  |
| Flexible with ferrule   |                  | mm <sup>2</sup> | 1 x (0.75 - 1.5)<br>2 x (0.75 - 1.5)  |
| Solid or stranded   |                  | AWG             | 18 - 14   |
| Terminal screw  |                  |                 | M3.5  |
| Pozidriv screwdriver  |                  | Size            | 2   |
| Standard screwdriver  |                  | mm              | 0.8 x 5.5<br>1 x 6  |
| Max. tightening torque  |                  | Nm              | 1.2   |
| Terminal capacity springloaded terminals main and control circuits    |                  |                 |   |
| Solid   |                  | mm <sup>2</sup> | 1 x (1 - 2.5)<br>2 x (1 - 2.5)  |
| Flexible with ferrule   |                  | mm <sup>2</sup> | 1 x (1 - 2.5)<br>2 x (1 - 2.5)  |
| Standard screwdriver  |                  | mm              | 0.6 x 3.5   |
| <b>Main conducting paths</b>  |                  |                 |   |
| Rated impulse withstand voltage                                       | U <sub>imp</sub> | V AC            | 6000  |
| Overvoltage category/pollution degree                                 |                  |                 | III/3   |
| Rated insulation voltage  | U <sub>i</sub>   | V AC            | 690   |
| Rated operational voltage   | U <sub>e</sub>   | V AC            | 690   |
| Safe isolation to VDE 0106 Part 101 and Part 101/A1                   |                  |                 |   |
| between coil and contacts   |                  | V AC            | 300   |
| between the contacts  |                  | V AC            | 300   |
| Making capacity (cos φ to IEC/EN 60947)                               |                  | A               | 110   |