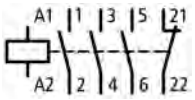
# Contactor,4kW/400V,AC operated

**Part no.** DILEM-01(230V50HZ,240V60HZ

**Article no.** 051795

## Program

| | | | |
|---|---|---|---|
| Product range | | | Contactors |
| Subrange | | | DILEM contactors |
| Application | | | Mini Contactors for Motors and Resistive Loads |
| Description | | | With auxiliary contact |
| Pole | | | 3 pole |
| Connection technique | | | Screw terminals |
| Rated operational current | | | |
| AC-3 | | | |
| 400 V | $I_e$ | A | 9 |
| AC-1 | | | |
| Conventional free air thermal current, 3 pole, 50 - 60 Hz | | | |
| Open | | | |
| at 50 °C | $I_{th} = I_e$ | A | 20 |
| enclosed | $I_{th}$ | A | 16 |
| 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 | | | 230 V 50 Hz, 240 V 60 Hz |
| Voltage AC/DC | | | AC operation |

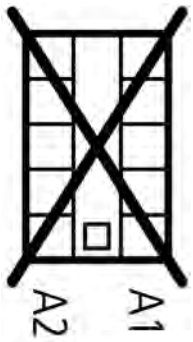


## Approbationen

| | |
|---|---|
| Product Standards | IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE marking |
| UL File No. | E29096 |
| UL CCN | NLDX |
| CSA File No. | 012528 |
| CSA Class No. | 3211-04 |
| NA Certification | UL listed, CSA certified |
| Specially designed for NA | No |

## General

| | | | |
|---|---|---|---|
| Standards | | | IEC/EN 60947, VDE 0660, CSA, UL |
| Lifespan, mechanical; Coil 50/60 Hz | Operations | x $10^6$ | 7 |
| Lifespan, mechanical | Operations | x $10^6$ | 10 |
| 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   |
| 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 90274) | | | Finger and back-ofhand proof |
| Weight | | kg | 0.2 |
| Terminal capacity of auxiliary and main contacts | | | |
| Solid | | $mm^2$ | 1 x (0.75 - 2.5)<br>2 x (0.75 - 2.5) |
| Flexible with ferrule | | $mm^2$ | 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 | | $mm^2$ | 1 x (1 - 2.5)<br>2 x (1 - 2.5) |
| Flexible with ferrule | | $mm^2$ | 1 x (1 - 2.5)<br>2 x (1 - 2.5) |
| Standard screwdriver | | mm | 0.6 x 3.5 |

## Main conducting paths

| | | | |
|---|---|---|---|
| Rated impulse withstand voltage | $U_{imp}$ | V AC | 6000 |
| Overvoltage category/pollution degree | | | III/3 |
| Rated insulation voltage | $U_i$ | V AC | 690 |
| Rated operational voltage | $U_e$ | 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 |
| Breaking capacity | | | |
| 220/230 V | | A | 90 |
| 380/400 V | | A | 90 |