



**Contactor, 3 pole, 380 V 400 V 55 kW, RAC 120: 100 - 120 V 50/60 Hz, AC operation, Screw terminals**

**Part no.** DILM115(RAC120)  
**Catalog No.** 239547  
**Alternate Catalog No.** XTCE115G00A  
**EL-Nummer (Norway)** 4110246

## Delivery program

|                                                           |                |    |                                                                                                                                                                                                                            |
|-----------------------------------------------------------|----------------|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product range                                             |                |    | Contactors                                                                                                                                                                                                                 |
| Application                                               |                |    | Contactors for Motors                                                                                                                                                                                                      |
| Subrange                                                  |                |    | Contactors up to 170 A, 3 pole                                                                                                                                                                                             |
| Utilization category                                      |                |    | AC-1: Non-inductive or slightly inductive loads, resistance furnaces<br>NAC-3: Normal AC induction motors: starting, switch off during running<br>AC-4: Normal AC induction motors: starting, plugging, reversing, inching |
|                                                           |                |    |                                                                                                                                                                                                                            |
| Notes                                                     |                |    | Also suitable for motors with efficiency class IE3.<br>IE3-ready devices are identified by the logo on their packaging.                                                                                                    |
| Connection technique                                      |                |    | Screw terminals                                                                                                                                                                                                            |
| Number of poles                                           |                |    | 3 pole                                                                                                                                                                                                                     |
| <b>Rated operational current</b>                          |                |    |                                                                                                                                                                                                                            |
| AC-3                                                      |                |    |                                                                                                                                                                                                                            |
| Notes                                                     |                |    | At maximum permissible ambient temperature (open.)                                                                                                                                                                         |
| 380 V 400 V                                               | $I_e$          | A  | 115                                                                                                                                                                                                                        |
| AC-1                                                      |                |    |                                                                                                                                                                                                                            |
| Conventional free air thermal current, 3 pole, 50 - 60 Hz |                |    |                                                                                                                                                                                                                            |
| Open                                                      |                |    |                                                                                                                                                                                                                            |
| at 40 °C                                                  | $I_{th} = I_e$ | A  | 160                                                                                                                                                                                                                        |
| enclosed                                                  | $I_{th}$       | A  | 115                                                                                                                                                                                                                        |
| Conventional free air thermal current, 1 pole             |                |    |                                                                                                                                                                                                                            |
| open                                                      | $I_{th}$       | A  | 325                                                                                                                                                                                                                        |
| enclosed                                                  | $I_{th}$       | A  | 285                                                                                                                                                                                                                        |
| <b>Max. rating for three-phase motors, 50 - 60 Hz</b>     |                |    |                                                                                                                                                                                                                            |
| AC-3                                                      |                |    |                                                                                                                                                                                                                            |
| 220 V 230 V                                               | P              | kW | 37                                                                                                                                                                                                                         |
| 380 V 400 V                                               | P              | kW | 55                                                                                                                                                                                                                         |
| 660 V 690 V                                               | P              | kW | 90                                                                                                                                                                                                                         |
| AC-4                                                      |                |    |                                                                                                                                                                                                                            |
| 220 V 230 V                                               | P              | kW | 17                                                                                                                                                                                                                         |
| 380 V 400 V                                               | P              | kW | 28                                                                                                                                                                                                                         |
| 660 V 690 V                                               | P              | kW | 43                                                                                                                                                                                                                         |
| Contact sequence                                          |                |    |                                                                                                                                                                                                                            |
| <b>Instructions</b>                                       |                |    | Contacts to EN 50 012.<br>integrated suppressor circuit in actuating electronics                                                                                                                                           |
| Can be combined with auxiliary contact                    |                |    | DILM150-XHI(V)..<br>DILM1000-XHI(V)..                                                                                                                                                                                      |
| Actuating voltage                                         |                |    | RAC 120: 100 - 120 V 50/60 Hz                                                                                                                                                                                              |
| Voltage AC/DC                                             |                |    | AC operation                                                                                                                                                                                                               |
| Connection to SmartWire-DT                                |                |    | no                                                                                                                                                                                                                         |

## Technical data

### General

|                                                                       |                                     |                 |                                                                                    |
|-----------------------------------------------------------------------|-------------------------------------|-----------------|------------------------------------------------------------------------------------|
| Standards                                                             |                                     |                 | IEC/EN 60947, VDE 0660, UL, CSA                                                    |
| Lifespan, mechanical                                                  |                                     |                 |                                                                                    |
| AC operated                                                           | Operations                          | $\times 10^6$   | 10                                                                                 |
| Operating frequency, mechanical                                       |                                     |                 |                                                                                    |
| AC operated                                                           | Operations/h                        |                 | 3600                                                                               |
| Climatic proofing                                                     |                                     |                 | Damp heat, constant, to IEC 60068-2-78<br>Damp heat, cyclic, to IEC 60068-2-30     |
| Ambient temperature                                                   |                                     |                 |                                                                                    |
| Open                                                                  |                                     | °C              | -25 - +60                                                                          |
| Enclosed                                                              |                                     | °C              | - 25 - 40                                                                          |
| Storage                                                               |                                     | °C              | - 40 - 80                                                                          |
| Mounting position                                                     |                                     |                 |  |
| Mechanical shock resistance (IEC/EN 60068-2-27)                       |                                     |                 |                                                                                    |
| Half-sinusoidal shock, 10 ms                                          |                                     |                 |                                                                                    |
| Main contacts                                                         |                                     |                 |                                                                                    |
| N/O contact                                                           |                                     | g               | 10                                                                                 |
| Auxiliary contacts                                                    |                                     |                 |                                                                                    |
| N/O contact                                                           |                                     | g               | 7                                                                                  |
| N/C contact                                                           |                                     | g               | 5                                                                                  |
| Mechanical shock resistance (IEC/EN 60068-2-27) when tabletop-mounted |                                     |                 |                                                                                    |
| Half-sinusoidal shock, 10 ms                                          |                                     |                 |                                                                                    |
| Main contacts                                                         |                                     |                 |                                                                                    |
| N/O contact                                                           |                                     | g               | 10                                                                                 |
| Auxiliary contacts                                                    |                                     |                 |                                                                                    |
| N/O contact                                                           |                                     | g               | 7                                                                                  |
| N/C contact                                                           |                                     | g               | 5                                                                                  |
| Degree of Protection                                                  |                                     |                 | IP00                                                                               |
| Protection against direct contact when actuated from front (EN 50274) |                                     |                 | Finger and back-of-hand proof                                                      |
| Altitude                                                              |                                     | m               | Max. 2000                                                                          |
| Weight                                                                |                                     |                 |                                                                                    |
| AC operated                                                           |                                     | kg              | 2.25                                                                               |
| Screw connector terminals                                             |                                     |                 |                                                                                    |
| Terminal capacity main cable                                          |                                     |                 |                                                                                    |
| Flexible with ferrule                                                 |                                     | mm <sup>2</sup> | 1 x (10 - 95)<br>2 x (10 - 70)                                                     |
| Stranded                                                              |                                     | mm <sup>2</sup> | 1 x (16 - 95)<br>2 x (16 - 70)                                                     |
| Solid or stranded                                                     |                                     | AWG             | single 8...3/0, double 8...2/0                                                     |
| Flat conductor                                                        | Lamellenzahl<br>x Breite x<br>Dicke | mm              | 2 x (6 x 16 x 0.8)                                                                 |
| Stripping length                                                      |                                     | mm              | 24                                                                                 |
| Terminal screw                                                        |                                     |                 | M10                                                                                |
| Tightening torque                                                     |                                     | Nm              | 14                                                                                 |
| Tool                                                                  |                                     |                 |                                                                                    |
| Hexagon socket-head spanner                                           | SW                                  | mm              | 5                                                                                  |
| Terminal capacity control circuit cables                              |                                     |                 |                                                                                    |
| Solid                                                                 |                                     | mm <sup>2</sup> | 1 x (0.75 - 4)<br>2 x (0.75 - 2.5)                                                 |
| Flexible with ferrule                                                 |                                     | mm <sup>2</sup> | 1 x (0.75 - 2.5)<br>2 x (0.75 - 2.5)                                               |

|                      |      |                    |
|----------------------|------|--------------------|
| Solid or stranded    | AWG  | 18 - 14            |
| Stripping length     | mm   | 10                 |
| Terminal screw       |      | M3.5               |
| Tightening torque    | Nm   | 1.2                |
| Tool                 |      |                    |
| Pozidriv screwdriver | Size | 2                  |
| Standard screwdriver | mm   | 0.8 x 5.5<br>1 x 6 |

## Main conducting paths

|                                        |             |      |       |
|----------------------------------------|-------------|------|-------|
| Rated impulse withstand voltage        | $U_{imp}$   | V AC | 8000  |
| 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 EN 61140             |             |      |       |
| between coil and contacts              |             | V AC | 690   |
| between the contacts                   |             | V AC | 690   |
| Making capacity (p.f. to IEC/EN 60947) |             |      |       |
|                                        | Up to 690 V | A    | 1610  |
| Breaking capacity                      |             |      |       |
| 220 V 230 V                            |             | A    | 1150  |
| 380 V 400 V                            |             | A    | 1150  |
| 500 V                                  |             | A    | 1150  |
| 660 V 690 V                            |             | A    | 1100  |
| Short-circuit rating                   |             |      |       |
| Short-circuit protection maximum fuse  |             |      |       |
| Type "2" coordination                  |             |      |       |
| 400 V                                  | gG/gL 500 V | A    | 250   |
| 690 V                                  | gG/gL 690 V | A    | 250   |
| Type "1" coordination                  |             |      |       |
| 400 V                                  | gG/gL 500 V | A    | 250   |
| 690 V                                  | gG/gL 690 V | A    | 250   |

## AC

|                                                           |                |   |                                                    |
|-----------------------------------------------------------|----------------|---|----------------------------------------------------|
| AC-1                                                      |                |   |                                                    |
| Rated operational current                                 |                |   |                                                    |
| Conventional free air thermal current, 3 pole, 50 - 60 Hz |                |   |                                                    |
| Open                                                      |                |   |                                                    |
| at 40 °C                                                  | $I_{th} = I_e$ | A | 160                                                |
| at 50 °C                                                  | $I_{th} = I_e$ | A | 142                                                |
| at 55 °C                                                  | $I_{th} = I_e$ | A | 135                                                |
| at 60 °C                                                  | $I_{th} = I_e$ | A | 130                                                |
| enclosed                                                  | $I_{th}$       | A | 115                                                |
| Conventional free air thermal current, 1 pole             |                |   |                                                    |
| open                                                      | $I_{th}$       | A | 325                                                |
| enclosed                                                  | $I_{th}$       | A | 285                                                |
| AC-3                                                      |                |   |                                                    |
| Rated operational current                                 |                |   |                                                    |
| Open, 3-pole: 50 – 60 Hz                                  |                |   |                                                    |
| Notes                                                     |                |   | At maximum permissible ambient temperature (open.) |
| 220 V 230 V                                               | $I_e$          | A | 115                                                |
| 240 V                                                     | $I_e$          | A | 115                                                |
| 380 V 400 V                                               | $I_e$          | A | 115                                                |
| 415 V                                                     | $I_e$          | A | 115                                                |
| 440V                                                      | $I_e$          | A | 115                                                |
| 500 V                                                     | $I_e$          | A | 115                                                |
| 660 V 690 V                                               | $I_e$          | A | 93                                                 |

|                          |                |     |     |
|--------------------------|----------------|-----|-----|
| 380 V 400 V              | I <sub>e</sub> | A   | 115 |
| Motor rating             | P              | kWh |     |
| 220 V 230 V              | P              | kW  | 37  |
| 240V                     | P              | kW  | 40  |
| 380 V 400 V              | P              | kW  | 55  |
| 415 V                    | P              | kW  | 70  |
| 440 V                    | P              | kW  | 75  |
| 500 V                    | P              | kW  | 85  |
| 660 V 690 V              | P              | kW  | 90  |
| AC-4                     |                |     |     |
| Open, 3-pole: 50 – 60 Hz |                |     |     |
| 220 V 230 V              | I <sub>e</sub> | A   | 55  |
| 240 V                    | I <sub>e</sub> | A   | 55  |
| 380 V 400 V              | I <sub>e</sub> | A   | 55  |
| 415 V                    | I <sub>e</sub> | A   | 55  |
| 440 V                    | I <sub>e</sub> | A   | 55  |
| 500 V                    | I <sub>e</sub> | A   | 55  |
| 660 V 690 V              | I <sub>e</sub> | A   | 45  |
| Motor rating             | P              | kWh |     |
| 220 V 230 V              | P              | kW  | 17  |
| 240 V                    | P              | kW  | 19  |
| 380 V 400 V              | P              | kW  | 28  |
| 415 V                    | P              | kW  | 33  |
| 440 V                    | P              | kW  | 35  |
| 500 V                    | P              | kW  | 40  |
| 660 V 690 V              | P              | kW  | 43  |

## DC

|                                 |                |   |     |
|---------------------------------|----------------|---|-----|
| Rated operational current, open |                |   |     |
| DC-1                            |                |   |     |
| 60 V                            | I <sub>e</sub> | A | 160 |
| 110 V                           | I <sub>e</sub> | A | 160 |
| 220 V                           | I <sub>e</sub> | A | 90  |

## Current heat loss

|                                                   |  |    |      |
|---------------------------------------------------|--|----|------|
| 3 pole, at I <sub>th</sub> (60°)                  |  | W  | 24.2 |
| Current heat loss at I <sub>e</sub> to AC-3/400 V |  | W  | 18.9 |
| Impedance per pole                                |  | mΩ | 0.6  |

## Magnet systems

|                                                                        |          |                  |            |
|------------------------------------------------------------------------|----------|------------------|------------|
| Voltage tolerance                                                      |          |                  |            |
| AC operated                                                            | Pick-up  | x U <sub>c</sub> | 0.8 - 1.15 |
| Drop-out voltage AC operated                                           | Drop-out | x U <sub>c</sub> | 0.25 - 0.6 |
| Power consumption of the coil in a cold state and 1.0 x U <sub>S</sub> |          |                  |            |
| 50 Hz                                                                  | Pick-up  | VA               | 180        |
| 50 Hz                                                                  | Sealing  | VA               | 3.1        |
| 50 Hz                                                                  | Sealing  | W                | 2.3        |
| 60 Hz                                                                  | Pick-up  | VA               | 170        |
| 60 Hz                                                                  | Sealing  | VA               | 3.1        |
| 60 Hz                                                                  | Sealing  | W                | 2.3        |
| Duty factor                                                            |          | % DF             | 100        |
| Changeover time at 100 % U <sub>S</sub> (recommended value)            |          |                  |            |
| Main contacts                                                          |          |                  |            |
| AC operated                                                            |          |                  |            |
| Closing delay                                                          |          | ms               | 28 - 33    |
| Opening delay                                                          |          | ms               | 35 - 41    |
| Arcing time                                                            |          | ms               | 15         |

|                                                                                            |  |      |                 |
|--------------------------------------------------------------------------------------------|--|------|-----------------|
| Permissible residual current with actuation of A1 - A2 by the electronics (with 0 signal). |  | mA   | ≤ 1             |
| <b>Electromagnetic compatibility (EMC)</b>                                                 |  |      |                 |
| Emitted interference                                                                       |  |      | to EN 60947-1   |
| Interference immunity                                                                      |  |      | to EN 60947-1   |
| <b>Rating data for approved types</b>                                                      |  |      |                 |
| Switching capacity                                                                         |  |      |                 |
| Maximum motor rating                                                                       |  |      |                 |
| Three-phase                                                                                |  |      |                 |
| 200 V<br>208 V                                                                             |  | HP   | 40              |
| 230 V<br>240 V                                                                             |  | HP   | 50              |
| 460 V<br>480 V                                                                             |  | HP   | 100             |
| 575 V<br>600 V                                                                             |  | HP   | 100             |
| Single-phase                                                                               |  |      |                 |
| 115 V<br>120 V                                                                             |  | HP   | 10              |
| 230 V<br>240 V                                                                             |  | HP   | 25              |
| General use                                                                                |  | A    | 180             |
| Short Circuit Current Rating                                                               |  | SCCR |                 |
| Basic Rating                                                                               |  |      |                 |
| SCCR                                                                                       |  | kA   | 10              |
| max. Fuse                                                                                  |  | A    | 600             |
| max. CB                                                                                    |  | A    | 600             |
| 480 V High Fault                                                                           |  |      |                 |
| SCCR (fuse)                                                                                |  | kA   | 30/100          |
| max. Fuse                                                                                  |  | A    | 300/300 Class J |
| SCCR (CB)                                                                                  |  | kA   | 65              |
| max. CB                                                                                    |  | A    | 250             |
| 600 V High Fault                                                                           |  |      |                 |
| SCCR (fuse)                                                                                |  | kA   | 30/100          |
| max. Fuse                                                                                  |  | A    | 300/300 Class J |
| SCCR (CB)                                                                                  |  | kA   | 30              |
| max. CB                                                                                    |  | A    | 350             |
| Special Purpose Ratings                                                                    |  |      |                 |
| Electrical Discharge Lamps (Ballast)                                                       |  |      |                 |
| 480V 60Hz 3phase, 277V 60Hz 1phase                                                         |  | A    | 160             |
| 600V 60Hz 3phase, 347V 60Hz 1phase                                                         |  | A    | 160             |
| Incandescent Lamps (Tungsten)                                                              |  |      |                 |
| 480V 60Hz 3phase, 277V 60Hz 1phase                                                         |  | A    | 160             |
| 600V 60Hz 3phase, 347V 60Hz 1phase                                                         |  | A    | 160             |
| Resistance Air Heating                                                                     |  |      |                 |
| 480V 60Hz 3phase, 277V 60Hz 1phase                                                         |  | A    | 160             |
| 600V 60Hz 3phase, 347V 60Hz 1phase                                                         |  | A    | 160             |
| Refrigeration Control (CSA only)                                                           |  |      |                 |
| LRA 480V 60Hz 3phase                                                                       |  | A    | 540             |
| FLA 480V 60Hz 3phase                                                                       |  | A    | 84              |
| LRA 600V 60Hz 3phase                                                                       |  | A    | 540             |
| FLA 600V 60Hz 3phase                                                                       |  | A    | 84              |
| Definite Purpose Ratings (100,000 cycles acc. to UL 1995)                                  |  |      |                 |
| LRA 480V 60Hz 3phase                                                                       |  | A    | 690             |
| FLA 480V 60Hz 3phase                                                                       |  | A    | 115             |
| Elevator Control                                                                           |  |      |                 |
| 200V 60Hz 3phase                                                                           |  | HP   | 30              |
| 200V 60Hz 3phase                                                                           |  | A    | 92              |

|                  |    |     |
|------------------|----|-----|
| 240V 60Hz 3phase | HP | 40  |
| 240V 60Hz 3phase | A  | 104 |
| 480V 60Hz 3phase | HP | 75  |
| 480V 60Hz 3phase | A  | 96  |
| 600V 60Hz 3phase | HP | 100 |
| 600V 60Hz 3phase | A  | 99  |

## Design verification as per IEC/EN 61439

|                                                                                                                        |                   |    |                                                                                                                                  |
|------------------------------------------------------------------------------------------------------------------------|-------------------|----|----------------------------------------------------------------------------------------------------------------------------------|
| Technical data for design verification                                                                                 |                   |    |                                                                                                                                  |
| Rated operational current for specified heat dissipation                                                               | I <sub>n</sub>    | A  | 115                                                                                                                              |
| Heat dissipation per pole, current-dependent                                                                           | P <sub>vid</sub>  | W  | 6.3                                                                                                                              |
| Equipment heat dissipation, current-dependent                                                                          | P <sub>vid</sub>  | W  | 18.9                                                                                                                             |
| Static heat dissipation, non-current-dependent                                                                         | P <sub>vs</sub>   | W  | 2.3                                                                                                                              |
| Heat dissipation capacity                                                                                              | P <sub>diss</sub> | W  | 0                                                                                                                                |
| Operating ambient temperature min.                                                                                     |                   | °C | -25                                                                                                                              |
| Operating ambient temperature max.                                                                                     |                   | °C | 60                                                                                                                               |
| 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) / Power contactor, AC switching (EC000066)                                                                                               |    |           |
| Electric engineering, automation, process control engineering / Low-voltage switch technology / Contactor (LV) / Power contactor, AC switching (ecl@ss10.0.1-27-37-10-03 [AAB718015]) |    |           |
| Rated control supply voltage U <sub>s</sub> at AC 50HZ                                                                                                                                | V  | 100 - 120 |
| Rated control supply voltage U <sub>s</sub> at AC 60HZ                                                                                                                                | V  | 100 - 120 |
| Rated control supply voltage U <sub>s</sub> at DC                                                                                                                                     | V  | 0 - 0     |
| Voltage type for actuating                                                                                                                                                            |    | AC        |
| Rated operation current I <sub>e</sub> at AC-1, 400 V                                                                                                                                 | A  | 160       |
| Rated operation current I <sub>e</sub> at AC-3, 400 V                                                                                                                                 | A  | 115       |
| Rated operation power at AC-3, 400 V                                                                                                                                                  | kW | 55        |
| Rated operation current I <sub>e</sub> at AC-4, 400 V                                                                                                                                 | A  | 55        |

|                                                         |  |    |                  |
|---------------------------------------------------------|--|----|------------------|
| Rated operation power at AC-4, 400 V                    |  | kW | 28               |
| Rated operation power NEMA                              |  | kW | 74               |
| Modular version                                         |  |    | No               |
| Number of auxiliary contacts as normally open contact   |  |    | 0                |
| Number of auxiliary contacts as normally closed contact |  |    | 0                |
| Type of electrical connection of main circuit           |  |    | Screw connection |
| Number of normally closed contacts as main contact      |  |    | 0                |
| Number of main contacts as normally open contact        |  |    | 3                |

## Approvals

|                                      |  |  |                                                                          |
|--------------------------------------|--|--|--------------------------------------------------------------------------|
| Product Standards                    |  |  | IEC/EN 60947-4-1; UL 60947-4-1; CSA - C22.2 No. 60947-4-1-14; CE marking |
| UL File No.                          |  |  | E29096                                                                   |
| UL Category Control No.              |  |  | NLDX                                                                     |
| CSA File No.                         |  |  | 012528                                                                   |
| CSA Class No.                        |  |  | 2411-03, 3211-04                                                         |
| North America Certification          |  |  | UL listed, CSA certified                                                 |
| Specially designed for North America |  |  | No                                                                       |



- 1: Overload relay
- 2: Suppressor
- 3: Auxiliary contact modules

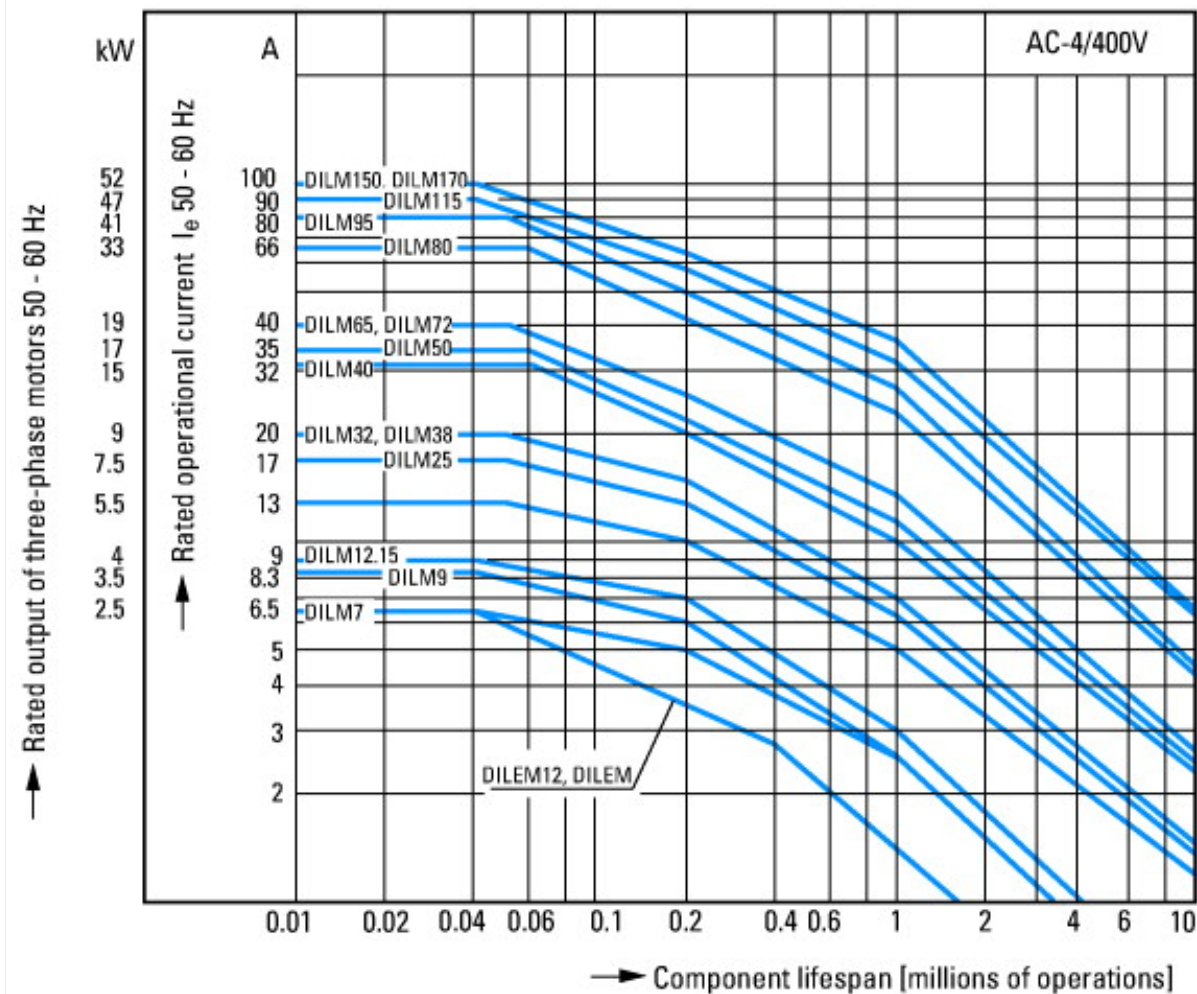


on the side: 2 x DILM820-XHI11(V)-SI; 2 x DILM820-XHI11-SA



Squirrel-cage motor  
 Operating characteristics  
 Starting: from rest  
 Stopping: after attaining full running speed  
 Electrical characteristics  
 Make: up to 6 x rated motor current  
 Break: up to 1 x rated motor current  
 Utilization category  
 100 % AC-3  
 Typical applications

Compressors  
 Lifts  
 Mixers  
 Pumps  
 Escalators  
 Agitators  
 Fans  
 Conveyor belts  
 Centrifuges  
 Hinged flaps  
 Bucket-elevators  
 Air conditioning system  
 General drives in manufacturing and processing machines



Extreme switching duty  
 Squirrel-cage motor  
 Operating characteristics  
 Inching, plugging, reversing  
 Electrical characteristics  
 Make: up to 6 x rated motor current  
 Break: up to 6 x rated motor current  
 Utilization category  
 100 % AC-4  
 Typical applications  
 Printing presses  
 Wire-drawing machines  
 Centrifuges  
 Special drives for manufacturing and processing machines

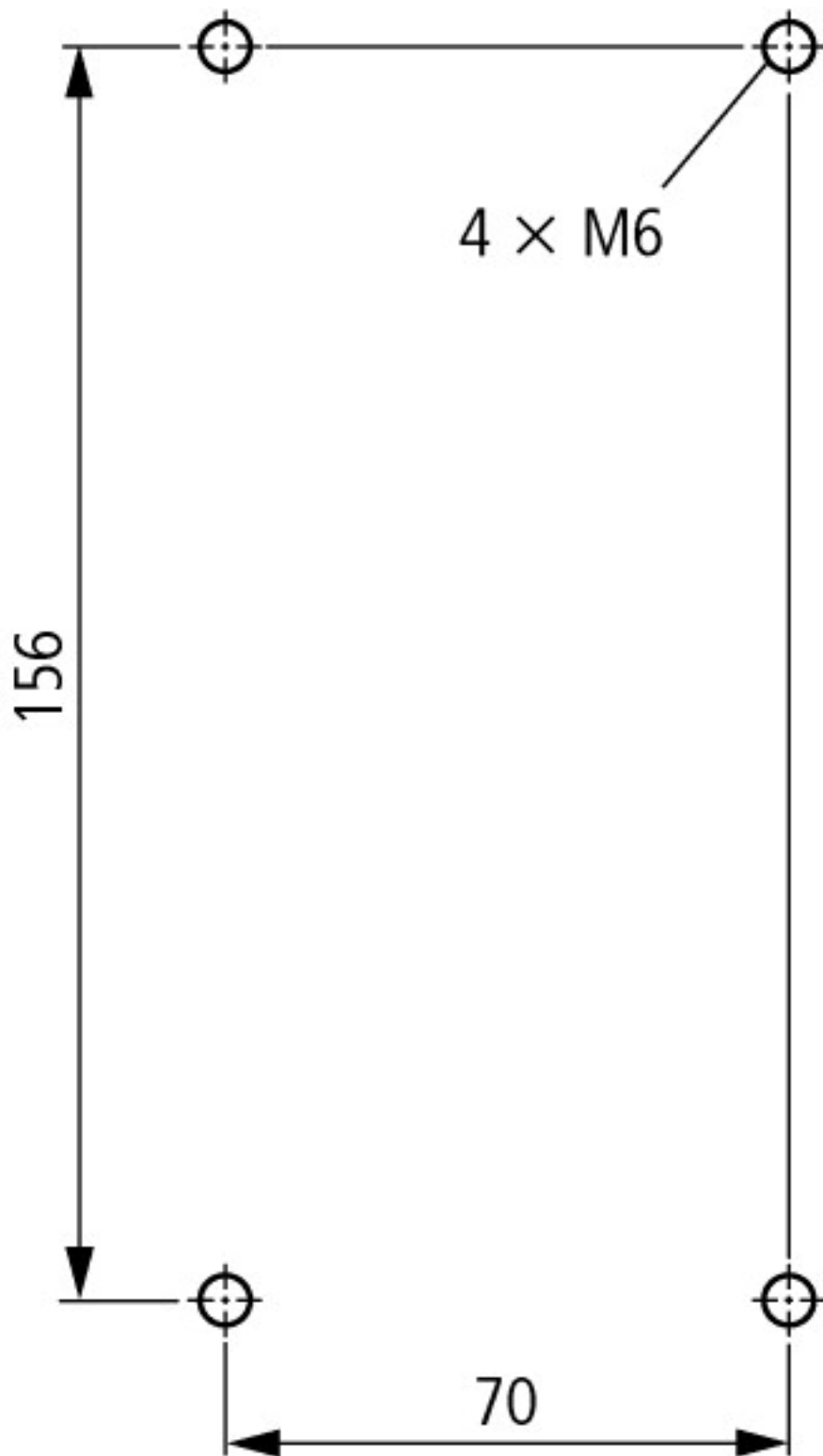


Switching conditions for non-motor consumers, 3 pole, 4 pole  
 Operating characteristics  
 Non inductive and slightly inductive loads  
 Electrical characteristics  
 Switch on: 1 x rated operational current  
 Switch off: 1 x rated operational current  
 Utilization category  
 100 % AC-1  
 Typical examples of application  
 Electric heat

Dimensions



Contactor with auxiliary contact module



distance at side to earthed parts: 10 mm

DILM80...DILM170  
DILMC80...DILMC150  
DILMF80...DILMF150

## Assets (links)

### [Declaration of CE Conformity](#)

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### [Instruction Leaflets](#)

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