

**Contactor, 3 pole, 380 V 400 V 18.5 kW, RDC 240: 200 - 240 V DC, DC operation, Screw terminals**

**Part no.** DILM40(RDC240)  
**Catalog No.** 277783  
**Alternate Catalog No.** XTCE040D00BD

## 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>AC-3/AC-3e: Normal AC induction motors: Starting, switching off while running<br>AC-4: Normal AC induction motors: starting, plugging, reversing, inching |
|                                                           |                                  |    |                                                                                                                                                 |
| Notes                                                     |                                  |    | Also suitable for motors with efficiency class IE3.                                                                                                                                                                               |
| Connection technique                                      |                                  |    | Screw terminals                                                                                                                                                                                                                   |
| Number of poles                                           |                                  |    | 3 pole                                                                                                                                                                                                                            |
| <b>Rated operational current</b>                          |                                  |    |                                                                                                                                                                                                                                   |
| AC-3                                                      |                                  |    |                                                                                                                                                                                                                                   |
| Notes                                                     |                                  |    | At maximum permissible ambient temperature (open.)<br>Also tested according to AC-3e.                                                                                                                                             |
| 380 V 400 V                                               | I <sub>e</sub>                   | A  | 40                                                                                                                                                                                                                                |
| AC-1                                                      |                                  |    |                                                                                                                                                                                                                                   |
| Conventional free air thermal current, 3 pole, 50 - 60 Hz |                                  |    |                                                                                                                                                                                                                                   |
| Open                                                      |                                  |    |                                                                                                                                                                                                                                   |
| at 40 °C                                                  | I <sub>th</sub> = I <sub>e</sub> | A  | 60                                                                                                                                                                                                                                |
| enclosed                                                  | I <sub>th</sub>                  | A  | 45                                                                                                                                                                                                                                |
| Conventional free air thermal current, 1 pole             |                                  |    |                                                                                                                                                                                                                                   |
| open                                                      | I <sub>th</sub>                  | A  | 125                                                                                                                                                                                                                               |
| enclosed                                                  | I <sub>th</sub>                  | A  | 112                                                                                                                                                                                                                               |
| <b>Max. rating for three-phase motors, 50 - 60 Hz</b>     |                                  |    |                                                                                                                                                                                                                                   |
| AC-3                                                      |                                  |    |                                                                                                                                                                                                                                   |
| 220 V 230 V                                               | P                                | kW | 12.5                                                                                                                                                                                                                              |
| 380 V 400 V                                               | P                                | kW | 18.5                                                                                                                                                                                                                              |
| 660 V 690 V                                               | P                                | kW | 23                                                                                                                                                                                                                                |
| AC-4                                                      |                                  |    |                                                                                                                                                                                                                                   |
| 220 V 230 V                                               | P                                | kW | 5                                                                                                                                                                                                                                 |
| 380 V 400 V                                               | P                                | kW | 9                                                                                                                                                                                                                                 |
| 660 V 690 V                                               | P                                | kW | 12                                                                                                                                                                                                                                |
| Contact sequence                                          |                                  |    |                                                                                                                                                                                                                                   |
| Can be combined with auxiliary contact                    |                                  |    | DILM150-XHI(V)...<br>DILM1000-XHI(V)...                                                                                                                                                                                           |
| Actuating voltage                                         |                                  |    | RDC 240: 200 - 240 V DC                                                                                                                                                                                                           |
| Voltage AC/DC                                             |                                  |    | DC operation                                                                                                                                                                                                                      |
| Connection to SmartWire-DT                                |                                  |    | no                                                                                                                                                                                                                                |
| <b>Instructions</b>                                       |                                  |    | Contacts to EN 50 012.<br>integrated suppressor circuit in actuating electronics                                                                                                                                                  |
| Frame size                                                |                                  |    | 3                                                                                                                                                                                                                                 |

## Technical data

### General

|           |  |  |                                 |
|-----------|--|--|---------------------------------|
| Standards |  |  | IEC/EN 60947, VDE 0660, UL, CSA |
|-----------|--|--|---------------------------------|

|                                                                       |                                     |                 |                                                                                    |
|-----------------------------------------------------------------------|-------------------------------------|-----------------|------------------------------------------------------------------------------------|
| Lifespan, mechanical                                                  |                                     |                 |                                                                                    |
| DC operated                                                           | Operations                          | $\times 10^6$   | 10                                                                                 |
| Operating frequency, mechanical                                       |                                     |                 |                                                                                    |
| DC operated                                                           | Operations/h                        |                 | 5000                                                                               |
| 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                                                                |                                     |                 |                                                                                    |
| DC operated                                                           |                                     | kg              | 1.052                                                                              |
| Screw connector terminals                                             |                                     |                 |                                                                                    |
| Terminal capacity main cable                                          |                                     |                 |                                                                                    |
| Solid                                                                 |                                     | mm <sup>2</sup> | 1 x (0.75 - 16)<br>2 x (0.75 - 16)                                                 |
| Flexible with ferrule                                                 |                                     | mm <sup>2</sup> | 1 x (0.75 - 35)<br>2 x (0.75 - 25)                                                 |
| Stranded                                                              |                                     | mm <sup>2</sup> | 1 x (16 - 50)<br>2 x (16 - 35)                                                     |
| Solid or stranded                                                     |                                     | AWG             | single 14 - 1, double 14 - 2                                                       |
| Flat conductor                                                        | Lamellenzahl<br>x Breite x<br>Dicke | mm              | 2 x (6 x 9 x 0.8)                                                                  |
| Stripping length                                                      |                                     | mm              | 14                                                                                 |
| Terminal screw                                                        |                                     |                 | M6                                                                                 |
| Tightening torque                                                     |                                     | Nm              | 3.3                                                                                |
| Tool                                                                  |                                     |                 |                                                                                    |
| Pozidriv screwdriver                                                  |                                     | Size            | 2                                                                                  |
| Standard screwdriver                                                  |                                     | mm              | 0.8 x 5.5<br>1 x 6                                                                 |
| 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 | 440   |
| between the contacts                   |             | V AC | 440   |
| Making capacity (p.f. to IEC/EN 60947) |             |      |       |
|                                        | Up to 690 V | A    | 560   |
| Breaking capacity                      |             |      |       |
| 220 V 230 V                            |             | A    | 400   |
| 380 V 400 V                            |             | A    | 400   |
| 500 V                                  |             | A    | 400   |
| 660 V 690 V                            |             | A    | 250   |
| Short-circuit rating                   |             |      |       |
| Short-circuit protection maximum fuse  |             |      |       |
| Type "2" coordination                  |             |      |       |
| 400 V                                  | gG/gL 500 V | A    | 63    |
| 690 V                                  | gG/gL 690 V | A    | 50    |
| Type "1" coordination                  |             |      |       |
| 400 V                                  | gG/gL 500 V | A    | 125   |
| 690 V                                  | gG/gL 690 V | A    | 80    |

### 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 | 60                                                                                    |
| at 50 °C                                                  | $I_{th} = I_e$ | A | 57                                                                                    |
| at 55 °C                                                  | $I_{th} = I_e$ | A | 55                                                                                    |
| at 60 °C                                                  | $I_{th} = I_e$ | A | 50                                                                                    |
| enclosed                                                  | $I_{th}$       | A | 45                                                                                    |
| Conventional free air thermal current, 1 pole             |                |   |                                                                                       |
| open                                                      | $I_{th}$       | A | 125                                                                                   |
| enclosed                                                  | $I_{th}$       | A | 112                                                                                   |
| AC-3                                                      |                |   |                                                                                       |
| Rated operational current                                 |                |   |                                                                                       |
| Open, 3-pole: 50 – 60 Hz                                  |                |   |                                                                                       |
| Notes                                                     |                |   | At maximum permissible ambient temperature (open.)<br>Also tested according to AC-3e. |
| 220 V 230 V                                               | $I_e$          | A | 40                                                                                    |
| 240 V                                                     | $I_e$          | A | 40                                                                                    |
| 380 V 400 V                                               | $I_e$          | A | 40                                                                                    |
| 415 V                                                     | $I_e$          | A | 40                                                                                    |
| 440V                                                      | $I_e$          | A | 40                                                                                    |
| 500 V                                                     | $I_e$          | A | 40                                                                                    |

|                          |                |     |      |
|--------------------------|----------------|-----|------|
| 660 V 690 V              | I <sub>e</sub> | A   | 25   |
| Motor rating             | P              | kWh |      |
| 220 V 230 V              | P              | kW  | 12.5 |
| 240V                     | P              | kW  | 13.5 |
| 380 V 400 V              | P              | kW  | 18.5 |
| 415 V                    | P              | kW  | 24   |
| 440 V                    | P              | kW  | 25   |
| 500 V                    | P              | kW  | 28   |
| 660 V 690 V              | P              | kW  | 23   |
| AC-4                     |                |     |      |
| Open, 3-pole: 50 – 60 Hz |                |     |      |
| 220 V 230 V              | I <sub>e</sub> | A   | 18   |
| 240 V                    | I <sub>e</sub> | A   | 18   |
| 380 V 400 V              | I <sub>e</sub> | A   | 18   |
| 415 V                    | I <sub>e</sub> | A   | 18   |
| 440 V                    | I <sub>e</sub> | A   | 18   |
| 500 V                    | I <sub>e</sub> | A   | 18   |
| 660 V 690 V              | I <sub>e</sub> | A   | 14   |
| Motor rating             | P              | kWh |      |
| 220 V 230 V              | P              | kW  | 5    |
| 240 V                    | P              | kW  | 5.5  |
| 380 V 400 V              | P              | kW  | 9    |
| 415 V                    | P              | kW  | 9.5  |
| 440 V                    | P              | kW  | 10   |
| 500 V                    | P              | kW  | 11   |
| 660 V 690 V              | P              | kW  | 12   |

## DC

|                                 |                |   |    |
|---------------------------------|----------------|---|----|
| Rated operational current, open |                |   |    |
| DC-1                            |                |   |    |
| 60 V                            | I <sub>e</sub> | A | 50 |
| 110 V                           | I <sub>e</sub> | A | 50 |
| 220 V                           | I <sub>e</sub> | A | 45 |

## Current heat loss

|                                                   |  |    |      |
|---------------------------------------------------|--|----|------|
| 3 pole, at I <sub>th</sub> (60°)                  |  | W  | 10.3 |
| Current heat loss at I <sub>e</sub> to AC-3/400 V |  | W  | 6.6  |
| Impedance per pole                                |  | mΩ | 1.9  |

## Magnet systems

|                                                                        |          |                  |                                                                                                                                                                                          |
|------------------------------------------------------------------------|----------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Voltage tolerance                                                      |          |                  |                                                                                                                                                                                          |
| DC operated                                                            | Pick-up  | x U <sub>c</sub> | 0.7 - 1.2                                                                                                                                                                                |
| Notes                                                                  |          |                  | RDC 240 (U <sub>min</sub> 200 V DC/U <sub>max</sub> 240 V DC)<br>Example: U <sub>S</sub> = 0.7 x U <sub>min</sub> - 1.2 x U <sub>max</sub> / U <sub>S</sub> = 0.7 x 200V - 1.2 x 240V DC |
| DC operated                                                            | Drop-out | x U <sub>c</sub> | 0.15 - 0.6                                                                                                                                                                               |
| Notes                                                                  |          |                  | at least smoothed two-phase bridge rectifier or three-phase rectifier                                                                                                                    |
| Power consumption of the coil in a cold state and 1.0 x U <sub>S</sub> |          |                  |                                                                                                                                                                                          |
| DC operated                                                            | Pick-up  | W                | 24                                                                                                                                                                                       |
| DC operated                                                            | Sealing  | W                | 1                                                                                                                                                                                        |
| Duty factor                                                            |          | % DF             | 100                                                                                                                                                                                      |
| Changeover time at 100 % U <sub>S</sub> (recommended value)            |          |                  |                                                                                                                                                                                          |
| Main contacts                                                          |          |                  |                                                                                                                                                                                          |
| DC operated                                                            |          | ms               |                                                                                                                                                                                          |
| Closing delay                                                          |          | ms               |                                                                                                                                                                                          |
| Closing delay                                                          |          | ms               | 54                                                                                                                                                                                       |
| Opening delay                                                          |          | ms               |                                                                                                                                                                                          |
| Opening delay                                                          |          | ms               | 24                                                                                                                                                                                       |
| Arcing time                                                            |          | ms               | 10                                                                                                                                                                                       |

Electromagnetic compatibility (EMC)

|                       |  |  |               |
|-----------------------|--|--|---------------|
| Emitted interference  |  |  | to EN 60947-1 |
| Interference immunity |  |  | to EN 60947-1 |

Rating data for approved types

|                                      |  |      |                 |
|--------------------------------------|--|------|-----------------|
| Switching capacity                   |  |      |                 |
| Maximum motor rating                 |  |      |                 |
| Three-phase                          |  |      |                 |
| 200 V<br>208 V                       |  | HP   | 10              |
| 230 V<br>240 V                       |  | HP   | 15              |
| 460 V<br>480 V                       |  | HP   | 30              |
| 575 V<br>600 V                       |  | HP   | 40              |
| Single-phase                         |  |      |                 |
| 115 V<br>120 V                       |  | HP   | 3               |
| 230 V<br>240 V                       |  | HP   | 7.5             |
| General use                          |  | A    | 63              |
| Short Circuit Current Rating         |  | SCCR |                 |
| Basic Rating                         |  |      |                 |
| SCCR                                 |  | kA   | 10              |
| max. Fuse                            |  | A    | 250             |
| max. CB                              |  | A    | 250             |
| 480 V High Fault                     |  |      |                 |
| SCCR (fuse)                          |  | kA   | 30/100          |
| max. Fuse                            |  | A    | 250/150 Class J |
| SCCR (CB)                            |  | kA   | 65              |
| max. CB                              |  | A    | 100             |
| 600 V High Fault                     |  |      |                 |
| SCCR (fuse)                          |  | kA   | 30/100          |
| max. Fuse                            |  | A    | 250/150 Class J |
| SCCR (CB)                            |  | kA   | 30              |
| max. CB                              |  | A    | 250             |
| Special Purpose Ratings              |  |      |                 |
| Electrical Discharge Lamps (Ballast) |  |      |                 |
| 480V 60Hz 3phase, 277V 60Hz 1phase   |  | A    | 79              |
| 600V 60Hz 3phase, 347V 60Hz 1phase   |  | A    | 79              |
| Incandescent Lamps (Tungsten)        |  |      |                 |
| 480V 60Hz 3phase, 277V 60Hz 1phase   |  | A    | 74              |
| 600V 60Hz 3phase, 347V 60Hz 1phase   |  | A    | 74              |
| Resistance Air Heating               |  |      |                 |
| 480V 60Hz 3phase, 277V 60Hz 1phase   |  | A    | 79              |
| 600V 60Hz 3phase, 347V 60Hz 1phase   |  | A    | 79              |
| Elevator Control                     |  |      |                 |
| 200V 60Hz 3phase                     |  | HP   | 7.5             |
| 200V 60Hz 3phase                     |  | A    | 25.3            |
| 240V 60Hz 3phase                     |  | HP   | 10              |
| 240V 60Hz 3phase                     |  | A    | 28              |
| 480V 60Hz 3phase                     |  | HP   | 25              |
| 480V 60Hz 3phase                     |  | A    | 34              |
| 600V 60Hz 3phase                     |  | HP   | 30              |
| 600V 60Hz 3phase                     |  | A    | 32              |

Design verification as per IEC/EN 61439

|                                        |  |  |  |
|----------------------------------------|--|--|--|
| Technical data for design verification |  |  |  |
|----------------------------------------|--|--|--|

|                                                                                                                        |                   |    |                                                                                                                                  |
|------------------------------------------------------------------------------------------------------------------------|-------------------|----|----------------------------------------------------------------------------------------------------------------------------------|
| Rated operational current for specified heat dissipation                                                               | I <sub>n</sub>    | A  | 40                                                                                                                               |
| Heat dissipation per pole, current-dependent                                                                           | P <sub>vid</sub>  | W  | 2.2                                                                                                                              |
| Equipment heat dissipation, current-dependent                                                                          | P <sub>vid</sub>  | W  | 6.6                                                                                                                              |
| Static heat dissipation, non-current-dependent                                                                         | P <sub>vs</sub>   | W  | 1                                                                                                                                |
| 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 8.0

|                                                                                                                                                                                       |  |    |                  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----|------------------|
| 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  | 0 - 0            |
| Rated control supply voltage U <sub>s</sub> at AC 60HZ                                                                                                                                |  | V  | 0 - 0            |
| Rated control supply voltage U <sub>s</sub> at DC                                                                                                                                     |  | V  | 200 - 240        |
| Voltage type for actuating                                                                                                                                                            |  |    | DC               |
| Rated operation current I <sub>e</sub> at AC-1, 400 V                                                                                                                                 |  | A  | 60               |
| Rated operation current I <sub>e</sub> at AC-3, 400 V                                                                                                                                 |  | A  | 40               |
| Rated operation power at AC-3, 400 V                                                                                                                                                  |  | kW | 18.5             |
| Rated operation current I <sub>e</sub> at AC-4, 400 V                                                                                                                                 |  | A  | 18               |
| Rated operation power at AC-4, 400 V                                                                                                                                                  |  | kW | 9                |
| Rated operation power NEMA                                                                                                                                                            |  | kW | 22               |
| 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 normally open contacts as main contact                                                                                                                                      |  |    | 3                |

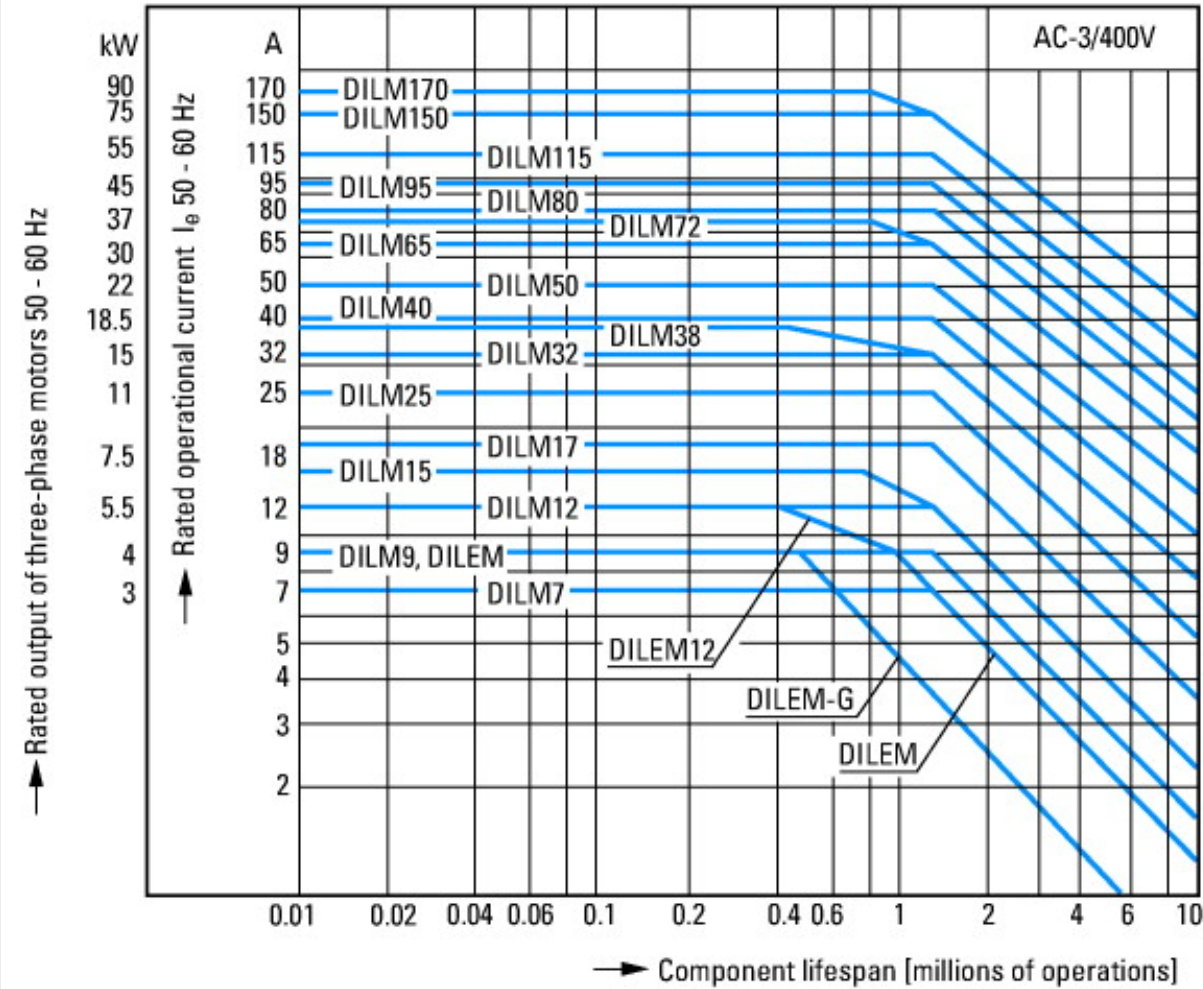
Approvals

|                                      |  |                                                                          |
|--------------------------------------|--|--------------------------------------------------------------------------|
| 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                                                                       |

Characteristics

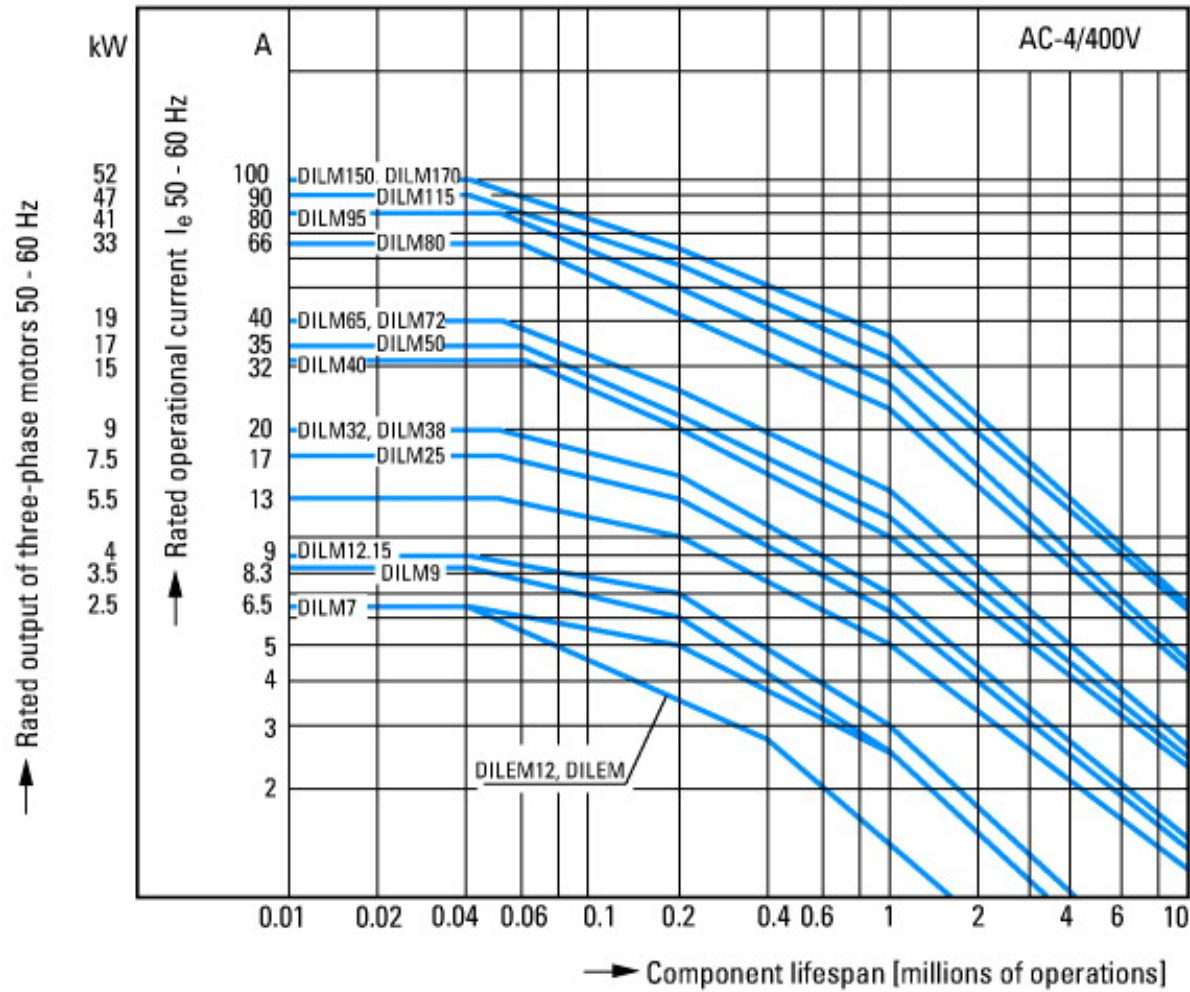
- 1: Overload relay  
2: Suppressor  
3: Auxiliary contact modules

on the side: 2 x DILM1000-XHI(V)11-SI; surface mounting: 1 x DILM150-XHIA11  
on the side: 2 x DILM1000-XHI(V)11-SA; surface mounting: 1 x DILM150-XHI (2 pole)  
on the side: 1 x DILM1000-XHI(V)11-SI; surface mounting: 1 x DILM150-XHIA22  
on the side: 1 x DILM1000-XHI(V)11-SA; surface mounting: 1 x DILM150-XHI (4 pole)

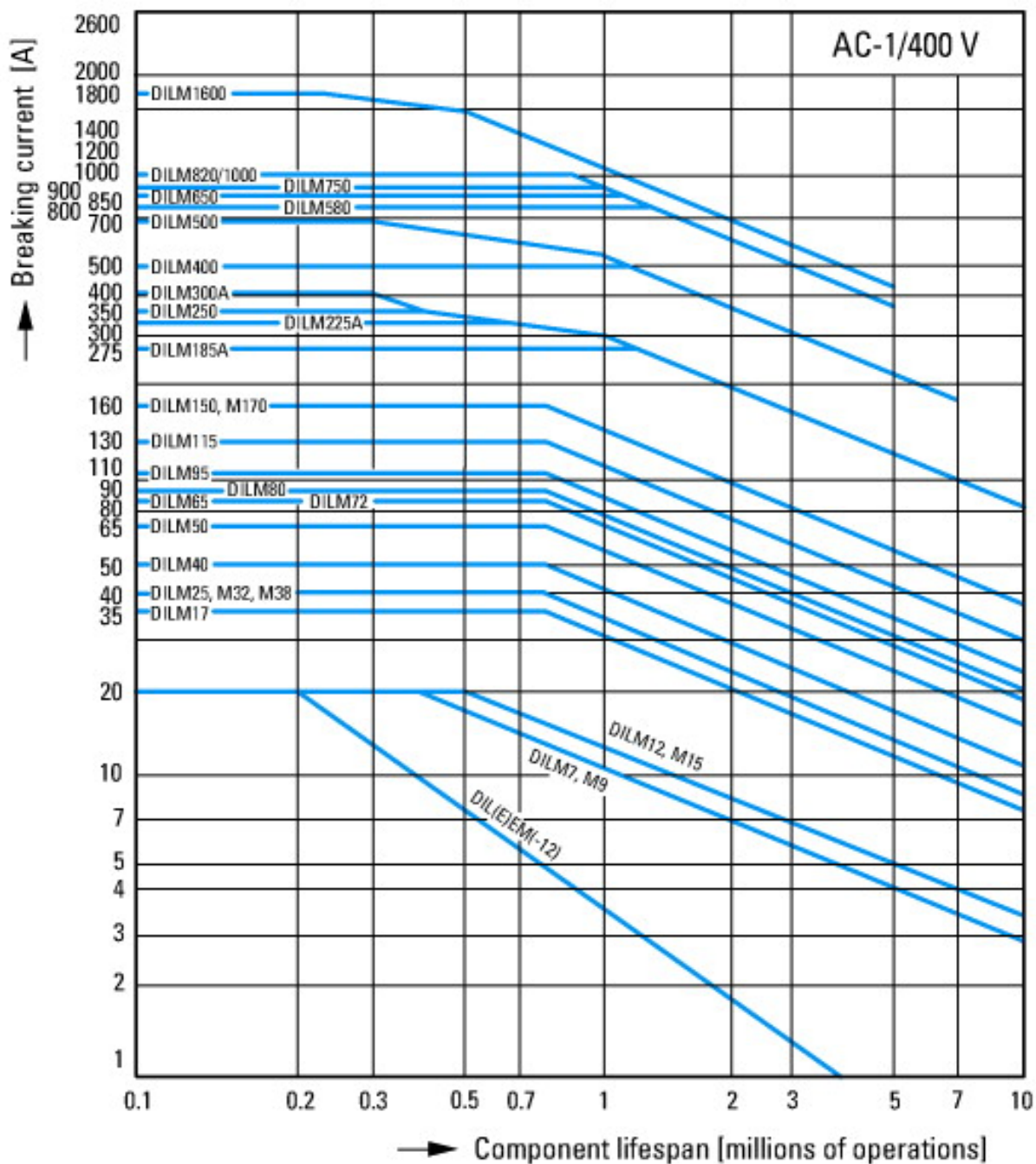


Squirrel-cage motor  
Operating characteristics  
Starting:from rest  
Stopping:after attaining full running speed  
Electrical characteristics  
Make: up to 6 x rated motor current  
Break: up to 1 x rated motor current  
Utilization category  
100 % AC-3  
Typical applications  
Compressors  
Lifts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

Contactors with auxiliary contact module

Lateral clearance to earthed parts: 6 mm

DILM40...DILM72  
 DILMC40...DILMC65  
 DILMF40...DILMF65

## Additional product information (links)

IL03407033Z (AWA2100-2247) Contactor DILM, basic unit

|                                                                                                |                                                                                                                                                                                                                 |
|------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IL03407033Z (AWA2100-2247) Contactor DILM, basic unit                                          | <a href="https://es-assets.eaton.com/DOCUMENTATION/AWA_INSTRUCTIONS/IL03407033Z2021_08.pdf">https://es-assets.eaton.com/DOCUMENTATION/AWA_INSTRUCTIONS/IL03407033Z2021_08.pdf</a>                               |
| Motor starters and "Special Purpose Ratings" for the North American market                     | <a href="http://www.eaton.eu/ecm/groups/public/@pub/@europe/@electrical/documents/content/pct_3258146.pdf">http://www.eaton.eu/ecm/groups/public/@pub/@europe/@electrical/documents/content/pct_3258146.pdf</a> |
| Switchgear of Power Factor Correction Systems                                                  | <a href="http://www.moeller.net/binary/ver_techpapers/ver934en.pdf">http://www.moeller.net/binary/ver_techpapers/ver934en.pdf</a>                                                                               |
| X-Start - Modern Switching Installations Efficiently Fitted and Wired Securely                 | <a href="http://www.moeller.net/binary/ver_techpapers/ver938en.pdf">http://www.moeller.net/binary/ver_techpapers/ver938en.pdf</a>                                                                               |
| Mirror Contacts for Highly-Reliable Information Relating to Safety-Related Control Functions   | <a href="http://www.moeller.net/binary/ver_techpapers/ver944en.pdf">http://www.moeller.net/binary/ver_techpapers/ver944en.pdf</a>                                                                               |
| Effect of the Cable Capacitance of Long Control Cables on the Actuation of Contactors          | <a href="http://www.moeller.net/binary/ver_techpapers/ver949en.pdf">http://www.moeller.net/binary/ver_techpapers/ver949en.pdf</a>                                                                               |
| Switchgear for Luminaires                                                                      | <a href="http://www.moeller.net/binary/ver_techpapers/ver955en.pdf">http://www.moeller.net/binary/ver_techpapers/ver955en.pdf</a>                                                                               |
| Standard Compliant and Functionally Safe Engineering Design with Mechanical Auxiliary Contacts | <a href="http://www.moeller.net/binary/ver_techpapers/ver956en.pdf">http://www.moeller.net/binary/ver_techpapers/ver956en.pdf</a>                                                                               |
| The Interaction of Contactors with PLCs                                                        | <a href="http://www.moeller.net/binary/ver_techpapers/ver957en.pdf">http://www.moeller.net/binary/ver_techpapers/ver957en.pdf</a>                                                                               |
| Busbar Component Adapters for modern Industrial control panels                                 | <a href="http://www.moeller.net/binary/ver_techpapers/ver960en.pdf">http://www.moeller.net/binary/ver_techpapers/ver960en.pdf</a>                                                                               |