

# DATASHEET - DILM7-32(230V50HZ,240V60HZ)



**Contactor, 380 V 400 V 3 kW, 3 N/O, 2 NC, 230 V 50 Hz, 240 V 60 Hz, AC operation, Screw terminals**



**Part no.** DILM7-32(230V50HZ,240V60HZ)  
**Catalog No.** 276655  
**Alternate Catalog No.** XTCE007B32F  
**EL-Nummer (Norway)** 4110279

## Delivery program

|                      |  |  |                                                                                                                                                                                                                            |
|----------------------|--|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product range        |  |  | Contactors                                                                                                                                                                                                                 |
| Application          |  |  | Contactors for Motors                                                                                                                                                                                                      |
| Subrange             |  |  | Complete devices up to 170 A                                                                                                                                                                                               |
| 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 |
| Connection technique |  |  | Screw terminals                                                                                                                                                                                                            |
|                      |  |  |                                                                                                                                                                                                                            |
| Notes                |  |  | Also suitable for motors with efficiency class IE3.<br>IE3-ready devices are identified by the logo on their packaging.                                                                                                    |

## Rated operational current

|                                                           |                |   |    |
|-----------------------------------------------------------|----------------|---|----|
| AC-3                                                      |                |   |    |
| 380 V 400 V                                               | $I_e$          | A | 7  |
| AC-1                                                      |                |   |    |
| Conventional free air thermal current, 3 pole, 50 - 60 Hz |                |   |    |
| Open                                                      |                |   |    |
| at 40 °C                                                  | $I_{th} = I_e$ | A | 22 |
| enclosed                                                  | $I_{th}$       | A | 18 |
| Conventional free air thermal current, 1 pole             |                |   |    |
| open                                                      | $I_{th}$       | A | 50 |
| enclosed                                                  | $I_{th}$       | A | 45 |

## Max. rating for three-phase motors, 50 - 60 Hz

|             |   |    |     |
|-------------|---|----|-----|
| AC-3        |   |    |     |
| 220 V 230 V | P | kW | 2.2 |
| 380 V 400 V | P | kW | 3   |
| 660 V 690 V | P | kW | 3.5 |
| AC-4        |   |    |     |
| 220 V 230 V | P | kW | 1   |
| 380 V 400 V | P | kW | 2.2 |
| 660 V 690 V | P | kW | 2.9 |

## Contacts

|                       |  |  |       |
|-----------------------|--|--|-------|
| N/O = Normally open   |  |  | 3 N/O |
| N/C = Normally closed |  |  | 2 NC  |

## Instructions

|                                             |  |  |                          |
|---------------------------------------------|--|--|--------------------------|
| Contacts to EN 50 012. with mirror contact. |  |  |                          |
| Contact sequence                            |  |  |                          |
| Actuating voltage                           |  |  | 230 V 50 Hz, 240 V 60 Hz |
| Voltage AC/DC                               |  |  | AC operation             |

## Technical data

### General

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

|                                                                       |                 |                   |                                                                                    |
|-----------------------------------------------------------------------|-----------------|-------------------|------------------------------------------------------------------------------------|
| AC operated                                                           | Operations      | x 10 <sup>6</sup> | 10                                                                                 |
| Operating frequency, mechanical                                       |                 |                   |                                                                                    |
| AC operated                                                           | Operations/h    |                   | 9000                                                                               |
| 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               |                   | 5.7                                                                                |
| Auxiliary contacts                                                    |                 |                   |                                                                                    |
| N/O contact                                                           | g               |                   | 3.4                                                                                |
| N/C contact                                                           | g               |                   | 3.4                                                                                |
| Degree of Protection                                                  |                 |                   | IP20                                                                               |
| Protection against direct contact when actuated from front (EN 50274) |                 |                   | Finger and back-of-hand proof                                                      |
| Altitude                                                              | m               |                   | Max. 2000                                                                          |
| Weight                                                                |                 |                   |                                                                                    |
| AC operated                                                           | kg              |                   | 0.23                                                                               |
| Screw connector terminals                                             |                 |                   |                                                                                    |
| Terminal capacity main cable                                          |                 |                   |                                                                                    |
| 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             |                   | single 18 - 10, double 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                                                                 |
| Terminal capacity control circuit cables                              |                 |                   |                                                                                    |
| Solid                                                                 | mm <sup>2</sup> |                   | 1 x (0.75 - 2.5)<br>2 x (0.75 - 2.5)                                               |
| Flexible with ferrule                                                 | mm <sup>2</sup> |                   | 1 x (0.75 - 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 | 400   |
| between the contacts                   |             | V AC | 400   |
| Making capacity (p.f. to IEC/EN 60947) |             |      |       |
|                                        | Up to 690 V | A    | 112   |
| Breaking capacity                      |             |      |       |
| 220 V 230 V                            |             | A    | 70    |
| 380 V 400 V                            |             | A    | 70    |
| 500 V                                  |             | A    | 50    |
| 660 V 690 V                            |             | A    | 40    |
| Short-circuit rating                   |             |      |       |
| Short-circuit protection maximum fuse  |             |      |       |
| Type "2" coordination                  |             |      |       |
| 400 V                                  | gG/gL 500 V | A    | 20    |
| 690 V                                  | gG/gL 690 V | A    | 16    |
| Type "1" coordination                  |             |      |       |
| 400 V                                  | gG/gL 500 V | A    | 35    |
| 690 V                                  | gG/gL 690 V | A    | 20    |

## 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   | 22                                                 |
| at 50 °C                                                  | $I_{th} = I_e$ | A   | 21                                                 |
| at 55 °C                                                  | $I_{th} = I_e$ | A   | 21                                                 |
| at 60 °C                                                  | $I_{th} = I_e$ | A   | 20                                                 |
| enclosed                                                  | $I_{th}$       | A   | 18                                                 |
| Conventional free air thermal current, 1 pole             |                |     |                                                    |
| open                                                      | $I_{th}$       | A   | 50                                                 |
| enclosed                                                  | $I_{th}$       | A   | 45                                                 |
| 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   | 7                                                  |
| 240 V                                                     | $I_e$          | A   | 7                                                  |
| 380 V 400 V                                               | $I_e$          | A   | 7                                                  |
| 415 V                                                     | $I_e$          | A   | 7                                                  |
| 440V                                                      | $I_e$          | A   | 7                                                  |
| 500 V                                                     | $I_e$          | A   | 5                                                  |
| 660 V 690 V                                               | $I_e$          | A   | 4                                                  |
| 380 V 400 V                                               | $I_e$          | A   | 7                                                  |
| Motor rating                                              | P              | kWh |                                                    |
| 220 V 230 V                                               | P              | kW  | 2.2                                                |
| 240V                                                      | P              | kW  | 2.2                                                |
| 380 V 400 V                                               | P              | kW  | 3                                                  |

|                          |                |     |     |
|--------------------------|----------------|-----|-----|
| 415 V                    | P              | kW  | 4   |
| 440 V                    | P              | kW  | 4.5 |
| 500 V                    | P              | kW  | 3.5 |
| 660 V 690 V              | P              | kW  | 3.5 |
| AC-4                     |                |     |     |
| Open, 3-pole: 50 – 60 Hz |                |     |     |
| 220 V 230 V              | I <sub>e</sub> | A   | 5   |
| 240 V                    | I <sub>e</sub> | A   | 5   |
| 380 V 400 V              | I <sub>e</sub> | A   | 5   |
| 415 V                    | I <sub>e</sub> | A   | 5   |
| 440 V                    | I <sub>e</sub> | A   | 5   |
| 500 V                    | I <sub>e</sub> | A   | 4.5 |
| 660 V 690 V              | I <sub>e</sub> | A   | 4   |
| Motor rating             | P              | kWh |     |
| 220 V 230 V              | P              | kW  | 1   |
| 240 V                    | P              | kW  | 1.5 |
| 380 V 400 V              | P              | kW  | 2.2 |
| 415 V                    | P              | kW  | 2.3 |
| 440 V                    | P              | kW  | 2.4 |
| 500 V                    | P              | kW  | 2.5 |
| 660 V 690 V              | P              | kW  | 2.9 |

## DC

|                                 |                |   |    |
|---------------------------------|----------------|---|----|
| Rated operational current, open |                |   |    |
| DC-1                            |                |   |    |
| 60 V                            | I <sub>e</sub> | A | 20 |
| 110 V                           | I <sub>e</sub> | A | 20 |
| 220 V                           | I <sub>e</sub> | A | 15 |

## Current heat loss

|                                                   |  |    |     |
|---------------------------------------------------|--|----|-----|
| 3 pole, at I <sub>th</sub> (60°)                  |  | W  | 2.4 |
| Current heat loss at I <sub>e</sub> to AC-3/400 V |  | W  | 0.3 |
| Impedance per pole                                |  | mΩ | 2.5 |

## Magnet systems

|                                                                        |          |                   |                                                                                     |
|------------------------------------------------------------------------|----------|-------------------|-------------------------------------------------------------------------------------|
| Voltage tolerance                                                      |          |                   |                                                                                     |
| AC operated                                                            | Pick-up  | x U <sub>c</sub>  | 0.8 - 1.1                                                                           |
| Drop-out voltage AC operated                                           | Drop-out | x U <sub>c</sub>  | 0.3 - 0.6                                                                           |
| Power consumption of the coil in a cold state and 1.0 x U <sub>S</sub> |          |                   |                                                                                     |
| 50 Hz                                                                  | Pick-up  | VA                | 24                                                                                  |
| 50 Hz                                                                  | Sealing  | VA                | 3.4                                                                                 |
| 50 Hz                                                                  | Sealing  | W                 | 1.4                                                                                 |
| 60 Hz                                                                  | Pick-up  | VA                | 30                                                                                  |
| 60 Hz                                                                  | Sealing  | VA                | 4.4                                                                                 |
| 60 Hz                                                                  | Sealing  | W                 | 1.4                                                                                 |
| 50/60 Hz                                                               | Sealing  | W                 | 1.4<br>1.2                                                                          |
| Duty factor                                                            |          | % DF              | 100                                                                                 |
| Changeover time at 100 % U <sub>S</sub> (recommended value)            |          |                   |                                                                                     |
| Main contacts                                                          |          |                   |                                                                                     |
| AC operated                                                            |          |                   |                                                                                     |
| Closing delay                                                          |          | ms                | 15 - 21                                                                             |
| Opening delay                                                          |          | ms                | 9 - 18                                                                              |
| Arcing time                                                            |          | ms                | 10                                                                                  |
| Lifespan, mechanical; Coil 50/60 Hz                                    |          | x 10 <sup>6</sup> | Mechanical lifespan at 50 Hz approx. 30% lower than under "Technical data, general" |

## 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   | 1.5                     |  |
| 230 V<br>240 V                                            | HP   | 2                       |  |
| 460 V<br>480 V                                            | HP   | 3                       |  |
| 575 V<br>600 V                                            | HP   | 5                       |  |
| Single-phase                                              |      |                         |  |
| 115 V<br>120 V                                            | HP   | 0.25                    |  |
| 230 V<br>240 V                                            | HP   | 1                       |  |
| General use                                               | A    | 20                      |  |
| Auxiliary contacts                                        |      |                         |  |
| Pilot Duty                                                |      |                         |  |
| AC operated                                               |      | A600                    |  |
| DC operated                                               |      | P300                    |  |
| General Use                                               |      |                         |  |
| AC                                                        | V    | 600                     |  |
| AC                                                        | A    | 10                      |  |
| DC                                                        | V    | 250                     |  |
| DC                                                        | A    | 1                       |  |
| Short Circuit Current Rating                              | SCCR |                         |  |
| Basic Rating                                              |      |                         |  |
| SCCR                                                      | kA   | 5                       |  |
| max. Fuse                                                 | A    | 45                      |  |
| max. CB                                                   | A    | 60                      |  |
| 480 V High Fault                                          |      |                         |  |
| SCCR (fuse)                                               | kA   | 30/100                  |  |
| max. Fuse                                                 | A    | 25 Class RK5/20 Class J |  |
| SCCR (CB)                                                 | kA   | 65                      |  |
| max. CB                                                   | A    | 16                      |  |
| 600 V High Fault                                          |      |                         |  |
| SCCR (fuse)                                               | kA   | 30/100                  |  |
| max. Fuse                                                 | A    | 25 Class RK5/20 Class J |  |
| Special Purpose Ratings                                   |      |                         |  |
| Electrical Discharge Lamps (Ballast)                      |      |                         |  |
| 480V 60Hz 3phase, 277V 60Hz 1phase                        | A    | 12                      |  |
| 600V 60Hz 3phase, 347V 60Hz 1phase                        | A    | 12                      |  |
| Incandescent Lamps (Tungsten)                             |      |                         |  |
| 480V 60Hz 3phase, 277V 60Hz 1phase                        | A    | 14                      |  |
| 600V 60Hz 3phase, 347V 60Hz 1phase                        | A    | 14                      |  |
| Resistance Air Heating                                    |      |                         |  |
| 480V 60Hz 3phase, 277V 60Hz 1phase                        | A    | 12                      |  |
| 600V 60Hz 3phase, 347V 60Hz 1phase                        | A    | 12                      |  |
| Refrigeration Control (CSA only)                          |      |                         |  |
| LRA 480V 60Hz 3phase                                      | A    | 60                      |  |
| FLA 480V 60Hz 3phase                                      | A    | 10                      |  |
| LRA 600V 60Hz 3phase                                      | A    | 60                      |  |
| FLA 600V 60Hz 3phase                                      | A    | 10                      |  |
| Definite Purpose Ratings (100,000 cycles acc. to UL 1995) |      |                         |  |
| LRA 480V 60Hz 3phase                                      | A    | 42                      |  |
| FLA 480V 60Hz 3phase                                      | A    | 7                       |  |

|                  |  |    |      |
|------------------|--|----|------|
| Elevator Control |  |    |      |
| 200V 60Hz 3phase |  | HP | 0.75 |
| 200V 60Hz 3phase |  | A  | 3.7  |
| 240V 60Hz 3phase |  | HP | 1.5  |
| 240V 60Hz 3phase |  | A  | 6    |
| 480V 60Hz 3phase |  | HP | 2    |
| 480V 60Hz 3phase |  | A  | 3.4  |
| 600V 60Hz 3phase |  | HP | 3    |
| 600V 60Hz 3phase |  | A  | 3.9  |

## Design verification as per IEC/EN 61439

|                                                                                                                        |                   |    |                                                                                                                                  |
|------------------------------------------------------------------------------------------------------------------------|-------------------|----|----------------------------------------------------------------------------------------------------------------------------------|
| Technical data for design verification                                                                                 |                   |    |                                                                                                                                  |
| Rated operational current for specified heat dissipation                                                               | I <sub>n</sub>    | A  | 7                                                                                                                                |
| Heat dissipation per pole, current-dependent                                                                           | P <sub>vid</sub>  | W  | 0.12                                                                                                                             |
| Equipment heat dissipation, current-dependent                                                                          | P <sub>vid</sub>  | W  | 0                                                                                                                                |
| Static heat dissipation, non-current-dependent                                                                         | P <sub>vs</sub>   | W  | 1.2                                                                                                                              |
| 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 Us at AC 50HZ                                                                                                                                            |  | V | 230 - 230 |
| Rated control supply voltage Us at AC 60HZ                                                                                                                                            |  | V | 240 - 240 |
| Rated control supply voltage Us at DC                                                                                                                                                 |  | V | 0 - 0     |
| Voltage type for actuating                                                                                                                                                            |  |   | AC        |
| Rated operation current Ie at AC-1, 400 V                                                                                                                                             |  | A | 22        |

|                                                         |    |                  |
|---------------------------------------------------------|----|------------------|
| Rated operation current Ie at AC-3, 400 V               | A  | 7                |
| Rated operation power at AC-3, 400 V                    | kW | 3                |
| Rated operation current Ie at AC-4, 400 V               | A  | 5                |
| Rated operation power at AC-4, 400 V                    | kW | 2.2              |
| Rated operation power NEMA                              | kW | 2.2              |
| Modular version                                         |    | No               |
| Number of auxiliary contacts as normally open contact   |    | 3                |
| Number of auxiliary contacts as normally closed contact |    | 2                |
| 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



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 3 pole, non-motor loads

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

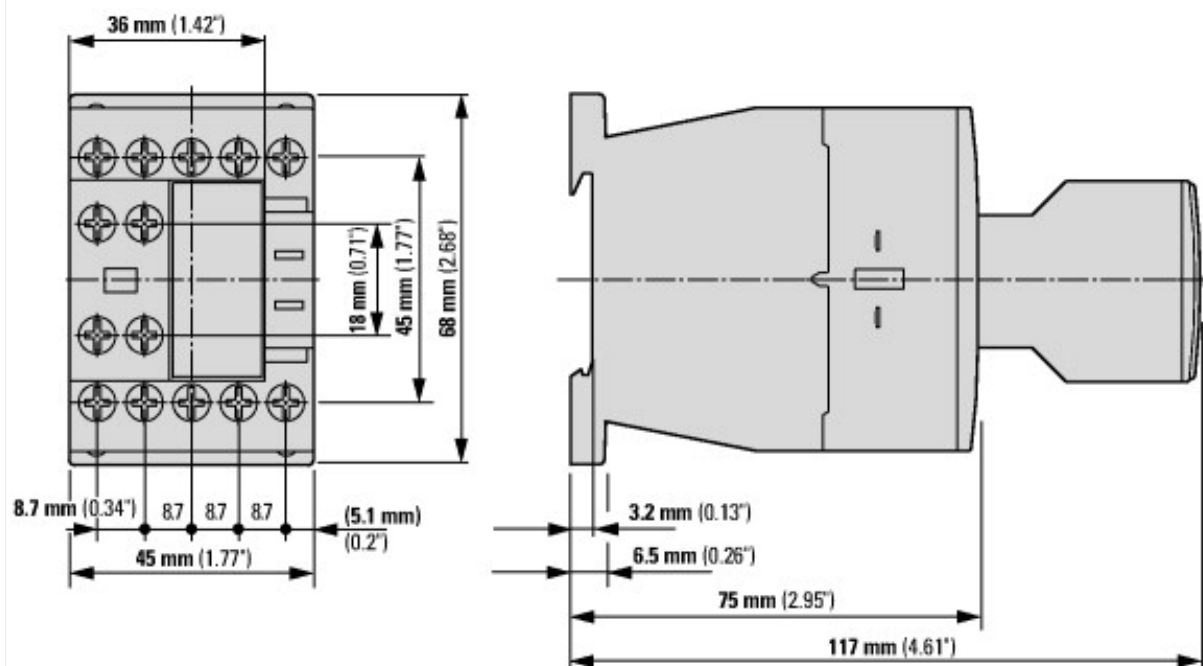
100 % AC-1

Typical examples of application

Electric heat



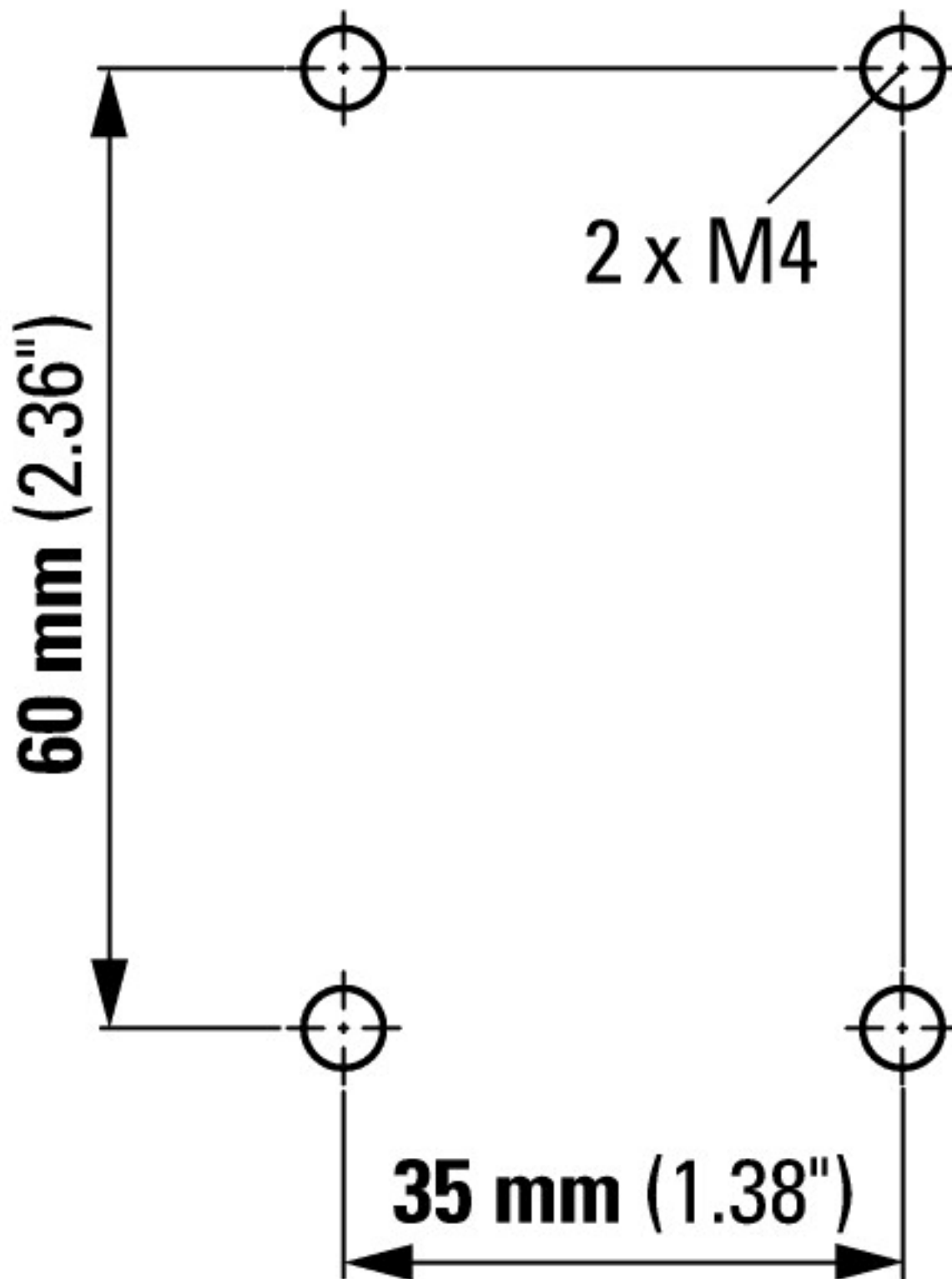
## Dimensions



Contactor with auxiliary contact module DILM32-XHI.../DILA-XHI...



Contactor with auxiliary contact module DILA-XHIT...



DILM7...DILM15  
DILA...  
Contactor with auxiliary contact module