DATASHEET - DILMP80(240V50HZ)



Contactor, 4 pole, 80 A, 240 V 50 Hz, AC operation

DILMP80(240V50HZ) Catalog No. 109885

Alternate Catalog XTCF080D00H5

Part no.



Delivery program

| Application Subrange Connection category Connection technique Number of poles Rated operational current AC-1 Conventional free air thermal current, 3 pole, 50 - 60 Hz at 50 °C at 60 °C Contact sequence Conventional free air thermal current AC-1 AC-1 AC-1 AC-1 Conventional free air thermal current, 3 pole, 50 - 60 Hz In = 1 ₀ A In = 1 ₀ A | Delivery program | | | |
|--|---|----------------|---|--|
| Subrange Utilization category Connection technique Connection technique Number of poles Rated operational current AC-1 Conventional free air thermal current, 3 pole, 50 - 60 Hz at 50 °C at 55 °C at 60 °C Contact sequence Contact sequence For use with Voltage AC/DC Connection to SmartWire-DT Connection to SmartWire-DT Contact sequence Connection to SmartWire-DT Contact sequence | Product range | | | Contactors |
| Utilization category AC-1: Non-inductive or slightly inductive loads, resistance furnaces AC-3/AC-3e: Normal AC induction motors: Starting, switching off while running Screw terminals Number of poles Apole AC-1 AC-1 Conventional free air thermal current, 3 pole, 50 - 60 Hz AC-1 at 40 °C In = In | Application | | | Contactors for 4 pole electric consumers |
| Connection technique Connection technique Connection technique Number of poles Rated operational current AC-1 Conventional free air thermal current, 3 pole, 50 - 60 Hz at 40 °C at 50 °C at 50 °C at 50 °C at 50 °C at 60 °C Contact sequence A Contact sequence Contact sequence Contact sequence Contact sequence A Contact sequence Contact sequence Contact sequence Contact sequence A Contact sequence Contact sequence Contact sequence A Contact sequenc | Subrange | | | Contactors up to 200 A, 4 pole |
| Number of poles Rated operational current AC-1 Conventional free air thermal current, 3 pole, 50 - 60 Hz at 40 °C at 40 °C ith = le at 50 °C ith = le at 60 °C Contact sequence Contact sequence For use with Actuating voltage Actuating voltage Connection to SmartWire-DT ACTUAL SHARTWIRE-DT ACTUAL SHARTWIRE-D | Utilization category | | | AC-1: Non-inductive or slightly inductive loads, resistance furnaces AC-3/AC-3e: Normal AC induction motors: Starting, switching off while running |
| Rated operational current AC-1 Conventional free air thermal current, 3 pole, 50 - 60 Hz at 40 °C at 40 °C at 50 °C in = le A 76 at 55 °C at 60 °C Contact sequence Contact sequence For use with Actuating voltage Actuating voltage Connection to SmartWire-DT Actual to SmartWire-DT | Connection technique | | | Screw terminals |
| AC-1 Conventional free air thermal current, 3 pole, 50 - 60 Hz at 40 °C at 50 °C the le A 76 at 55 °C the le A 73 at 60 °C Contact sequence A 73 A 73 A 2 A 1 1 1 3 5 7 7 A 2 2 1 4 6 8 Contact sequence Contact sequence Contact sequence Contact sequence Contact sequence Contact sequence A 73 A 2 A 1 1 1 3 5 7 7 A 2 2 1 4 6 8 Contact sequence Contact sequence Contact sequence Contact sequence Contact sequence A 69 Contact sequence Contact sequence A 73 A 2 1 1 1 3 5 7 7 A 2 1 1 1 3 5 7 7 A 2 1 1 1 3 5 7 7 A 2 1 1 1 3 5 7 7 A 2 1 1 1 3 5 7 7 A 2 1 1 1 3 5 7 7 A 2 1 1 1 3 1 5 7 7 A 2 1 1 1 1 3 1 5 7 7 A 2 1 1 1 1 1 3 1 5 7 7 A 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Number of poles | | | 4 pole |
| Conventional free air thermal current, 3 pole, 50 - 60 Hz at 40 °C at 50 °C lth = le A 76 at 55 °C lth = le A 73 at 60 °C Contact sequence All 1 1 3 5 7 7 AZ 2 4 6 8 Contact sequence Contact sequence Contact sequence Contact sequence Contact sequence Contact sequence All 1 1 3 5 7 7 AZ 2 4 6 8 Contact sequence All 1 1 3 5 7 7 AZ 2 2 4 6 8 Contact sequence Contact sequence Contact sequence Contact sequence Contact sequence Contact sequence All 1 1 3 5 7 7 AZ 2 2 4 6 8 Contact sequence Contact sequenc | Rated operational current | | | |
| at 40 °C Ith = Ie A 80 at 50 °C Ith = Ie A 76 at 60 °C Ith = Ie A 69 Contact sequence A 69 For use with DILM150-XHI(A)IV) or DILM1000-XHI(1-SA or DILM1000-XHI(V)11-SI DILM150-XHI(V)11-SI Actuating voltage AC operation AC operation Voltage AC/DC AC operation Connection to SmartWire-DT Ith = Ie A | AC-1 | | | |
| at 50 °C Inh = Ie A 76 at 55 °C Inh = Ie A 73 at 60 °C Inh = Ie A 69 Contact sequence A 1 1 1 3 5 7 A 1 1 1 3 5 7 A 1 1 1 3 5 7 A 2 2 4 6 8 B 1 1 1 3 5 7 A 1 1 1 3 5 7 A 2 2 4 6 8 B 1 1 1 3 6 8 For use with DILM150-XHI(A)(V) or DILM1000-XHI(V)11-SI DILM150-XHI(A)(V) or DILM1000-XHI(V)11-SI Actuating voltage AC 0 peration AC 0 peration Voltage AC/DC AC 0 peration AC 0 peration Connection to SmartWire-DT In 0 In 0 | Conventional free air thermal current, 3 pole, 50 - 60 Hz | | | |
| at 55 °C at 60 °C Contact sequence Contact sequence For use with Actuating voltage Voltage AC/DC Connection to SmartWire-DT Ith = le A 73 ACI 1 1 3 5 7 ACI 2 4 6 8 DILM150-XHI(A)(V) or DILM1000-XHI(1-SA or DILM1000-XHI(V)11-SI AC operation No Connection to SmartWire-DT ACI 2 40 V 50 Hz AC operation No Connection to SmartWire-DT | at 40 °C | $I_{th} = I_e$ | Α | 80 |
| at 60 °C Contact sequence For use with Actuating voltage Voltage AC/DC Connection to SmartWire-DT At 1 1 1 3 1 5 1 7 AA1 1 1 3 1 5 1 7 AA2 2 2 4 4 6 8 DILM150-XHI(A)(V) Or DILM1000-XHI(1-SI AC operation NO OC OC OC OC OC OC OC OC OC | at 50 °C | $I_{th} = I_e$ | Α | 76 |
| Contact sequence A1 1 3 5 7 A2 2 4 6 8 For use with For use with A2 2 4 6 8 DILM150-XHI(A)(V) or DILM1000-XHI(V)11-SI Actuating voltage Voltage AC/DC Connection to SmartWire-DT A1 1 3 5 7 A2 2 4 6 8 DILM150-XHI(A)(V) or DILM1000-XHI(V)11-SI AC operation no | at 55 °C | $I_{th} = I_e$ | Α | 73 |
| For use with Actuating voltage Voltage AC/DC Connection to SmartWire-DT ACUAL IN ACTUAL IN A | at 60 °C | $I_{th} = I_e$ | Α | 69 |
| or DILM1000-XHI11-SA or DILM1000-XHI(V)11-SI Actuating voltage Voltage AC/DC Connection to SmartWire-DT Actuating voltage Voltage AC/DC Connection to SmartWire-DT Actuating voltage Voltage AC/DC AC operation no | Contact sequence | | | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ |
| Voltage AC/DC AC operation Connection to SmartWire-DT no | For use with | | | or DILM1000-XHI11-SA or |
| Connection to SmartWire-DT no | Actuating voltage | | | 240 V 50 Hz |
| | Voltage AC/DC | | | AC operation |
| Instructions Contacts to EN 50 012. | Connection to SmartWire-DT | | | no |
| | Instructions | | | Contacts to EN 50 012. |

Technical data

| General | | | |
|---------------------------------|--------------|-------------------|---|
| Standards | | | IEC/EN 60947, VDE 0660, UL, CSA |
| Lifespan, mechanical | | | |
| AC operated | Operations | x 10 ⁶ | 10 |
| Operating frequency, mechanical | | | |
| AC operated | Operations/h | | 5000 |
| DC operated | Operations/h | | 5000 |
| Climatic proofing | | | Damp heat, constant, to IEC 60068-2-3 Damp heat, cyclic, to IEC 60068-2-30 |
| Ambient temperature | | | |
| Open | | °C | -25 - +60 |
| Enclosed | | °C | - 25 - 40 |
| Storage | | °C | - 40 - 80 |
| Mounting position | | | |
| Mounting position | | | 30° |

| Mechanical shock resistance (IEC/EN 60068-2-27) Half-sinusoidal shock, 10 ms Main contacts N/O contact Auxiliary contacts N/O contact N/C contact Degree of Protection Altitude Protection against direct contact when actuated from front (EN 50274) Stripping length Terminal capacity main cable Solid Flexible with ferrule Stranded Solid or stranded Flat conductor Lamel x Breit Dicke | m A A ellenzahl m eite x e | g g g m mm mm² mm² mm² mm² | 10 7 5 IP00 Max. 2000 Finger and back-of-hand proof 10 1 x (2.5 - 16) 2 x (2.5 - 16) 1 x (2.5 - 35) 2 x (2.5 - 25) 1 x (16 - 50) 2 x (16 - 35) 12 - 2 2 x (6 x 9 x 0.8) M6 3.3 |
|--|--|--|---|
| Main contacts N/O contact Auxiliary contacts N/O contact N/C contact Degree of Protection Altitude Protection against direct contact when actuated from front (EN 50274) Stripping length Terminal capacity main cable Solid Flexible with ferrule Stranded Solid or stranded Flat conductor Lamel x Breit Dicke | g g g m m m m m m A A ellenzahl mite x e | g g g m mm mm² mm² mm² mm² | 7 5 IP00 Max. 2000 Finger and back-of-hand proof 10 1 x (2.5 - 16) 2 x (2.5 - 16) 1 x (2.5 - 35) 2 x (2.5 - 25) 1 x (16 - 50) 2 x (16 - 35) 12 - 2 2 x (6 x 9 x 0.8) M6 |
| N/O contact Auxiliary contacts N/O contact N/C contact Degree of Protection Altitude Protection against direct contact when actuated from front (EN 50274) Stripping length Terminal capacity main cable Solid Flexible with ferrule Stranded Solid or stranded Flat conductor Lamel x Breit Dicke | g g g m m m m m m A A ellenzahl mite x e | g g g m mm mm² mm² mm² mm² | 7 5 IP00 Max. 2000 Finger and back-of-hand proof 10 1 x (2.5 - 16) 2 x (2.5 - 16) 1 x (2.5 - 35) 2 x (2.5 - 25) 1 x (16 - 50) 2 x (16 - 35) 12 - 2 2 x (6 x 9 x 0.8) M6 |
| Auxiliary contacts N/O contact N/C contact Degree of Protection Altitude Protection against direct contact when actuated from front (EN 50274) Stripping length Terminal capacity main cable Solid Flexible with ferrule Stranded Solid or stranded Flat conductor Lamel x Breit Dicke | g g g m m m m m m A A ellenzahl mite x e | g g g m mm mm² mm² mm² mm² | 7 5 IP00 Max. 2000 Finger and back-of-hand proof 10 1 x (2.5 - 16) 2 x (2.5 - 16) 1 x (2.5 - 35) 2 x (2.5 - 25) 1 x (16 - 50) 2 x (16 - 35) 12 - 2 2 x (6 x 9 x 0.8) M6 |
| N/O contact N/C contact Degree of Protection Altitude Protection against direct contact when actuated from front (EN 50274) Stripping length Terminal capacity main cable Solid Flexible with ferrule Stranded Solid or stranded Flat conductor Lamel x Breit Dicke | g m m m m m A A ellenzahl meite x e | m mm² mm² mm² mm² mm² | 5 IP00 Max. 2000 Finger and back-of-hand proof 10 1 x (2.5 - 16) 2 x (2.5 - 16) 1 x (2.5 - 35) 2 x (2.5 - 25) 1 x (16 - 50) 2 x (16 - 35) 12 - 2 2 x (6 x 9 x 0.8) M6 |
| N/C contact Degree of Protection Altitude Protection against direct contact when actuated from front (EN 50274) Stripping length Terminal capacity main cable Solid Flexible with ferrule Stranded Solid or stranded Flat conductor Lamel x Breit Dicke | g m m m m m A A ellenzahl meite x e | m mm² mm² mm² mm² mm² | 5 IP00 Max. 2000 Finger and back-of-hand proof 10 1 x (2.5 - 16) 2 x (2.5 - 16) 1 x (2.5 - 35) 2 x (2.5 - 25) 1 x (16 - 50) 2 x (16 - 35) 12 - 2 2 x (6 x 9 x 0.8) M6 |
| Degree of Protection Altitude Protection against direct contact when actuated from front (EN 50274) Stripping length Terminal capacity main cable Solid Flexible with ferrule Stranded Solid or stranded Flat conductor Lamell x Breit Dicke | m m m m A A ellenzahl m ete x e | m mm² mm² mm² amm² awg mm² | IP00 Max. 2000 Finger and back-of-hand proof 10 1 x (2.5 - 16) 2 x (2.5 - 16) 1 x (2.5 - 35) 2 x (2.5 - 25) 1 x (16 - 50) 2 x (16 - 35) 12 - 2 2 x (6 x 9 x 0.8) M6 |
| Altitude Protection against direct contact when actuated from front (EN 50274) Stripping length Terminal capacity main cable Solid Flexible with ferrule Stranded Solid or stranded Flat conductor Lamel x Breit Dicke | m m m A A ellenzahl m eite x e | mm mm² mm² mm² mm² mm² mm² nmm² | Max. 2000 Finger and back-of-hand proof 10 1 x (2.5 - 16) 2 x (2.5 - 16) 1 x (2.5 - 35) 2 x (2.5 - 25) 1 x (16 - 50) 2 x (16 - 35) 12 - 2 2 x (6 x 9 x 0.8) M6 |
| Protection against direct contact when actuated from front (EN 50274) Stripping length Terminal capacity main cable Solid Flexible with ferrule Stranded Solid or stranded Flat conductor Lamel x Breit Dicke | m m m A A ellenzahl m eite x e | mm² mm² mm² mm² amm² awg mm | Finger and back-of-hand proof 10 1 x (2.5 - 16) 2 x (2.5 - 16) 1 x (2.5 - 35) 2 x (2.5 - 25) 1 x (16 - 50) 2 x (16 - 35) 12 - 2 2 x (6 x 9 x 0.8) M6 |
| Stripping length Terminal capacity main cable Solid Flexible with ferrule Stranded Solid or stranded Flat conductor Lamel x Breit Dicke | m A A ellenzahl m eite x e | mm² mm² mm² mm² AWG mm | 10 1 x (2.5 - 16) 2 x (2.5 - 16) 1 x (2.5 - 35) 2 x (2.5 - 25) 1 x (16 - 50) 2 x (16 - 35) 12 - 2 2 x (6 x 9 x 0.8) M6 |
| Terminal capacity main cable Solid Flexible with ferrule Stranded Solid or stranded Flat conductor Lamel x Breit Dicke | m A A ellenzahl m eite x e | mm² mm² mm² AWG mm | 1 x (2.5 - 16) 2 x (2.5 - 16) 1 x (2.5 - 35) 2 x (2.5 - 25) 1 x (16 - 50) 2 x (16 - 35) 12 - 2 2 x (6 x 9 x 0.8) M6 |
| Solid Flexible with ferrule Stranded Solid or stranded Flat conductor Lamel x Breit Dicke | m A A ellenzahl m eite x e | mm ² AWG mm | 2 x (2.5 - 16) 1 x (2.5 - 35) 2 x (2.5 - 25) 1 x (16 - 50) 2 x (16 - 35) 12 - 2 2 x (6 x 9 x 0.8) M6 |
| Flexible with ferrule Stranded Solid or stranded Flat conductor Lamel x Breit Dicke | m A A ellenzahl m eite x e | mm ² AWG mm | 2 x (2.5 - 16) 1 x (2.5 - 35) 2 x (2.5 - 25) 1 x (16 - 50) 2 x (16 - 35) 12 - 2 2 x (6 x 9 x 0.8) M6 |
| Stranded Solid or stranded Flat conductor Lamel x Breit Dicke | A A Bellenzahl melenzahl melenzahl melenzahl melenzahl melenzah me | mm ² AWG mm | 2 x (2.5 - 25) 1 x (16 - 50) 2 x (16 - 35) 12 - 2 2 x (6 x 9 x 0.8) M6 |
| Solid or stranded Flat conductor Lamel x Breit Dicke | A mellenzahl meite x e | AWG mm | 2 x (16 - 35) 12 - 2 2 x (6 x 9 x 0.8) M6 |
| Flat conductor Lamel x Breit Dicke | ellenzahl m eite x e | mm Nm | 2 x (6 x 9 x 0.8) M6 |
| x Breit Dicke | eite x e | Nm | M6 |
| Torminal caraw | | Nm | |
| Terminal Sciew | | | 3.3 |
| Tightening torque | m | mm | |
| Stripping length | | | 10 |
| Push-in terminals | | | |
| Solid | m | | 1 x (0.75 - 2.5) 2 x (0.75 - 2.5) |
| flexible | | | 1 x (0.75 - 2.5) 2 x (0.75 - 2.5) |
| flexible with ferrules | | | 1 x (0.75 - 1.5) 2 x (0.75 - 1.5) |
| Solid or stranded | А | AWG | 18 - 14 |
| Terminal capacity control circuit cables | | 2 | 4 (075 4) |
| Solid Flexible with ferrule | | | 1 x (0.75 - 4) 2 x (0.75 - 4) 1 x (0.75 - 2.5) |
| | | | 2 x (0.75 - 2.5) |
| Solid or stranded | | | 18 - 14 |
| Stripping length | Ш | | 10 |
| Terminal screw | | | M3.5 |
| Tightening torque | N | Nm | 1.2 |
| Push-in terminals Solid | m | | 1 x (0.75 - 2.5) 2 x (0.75 - 2.5) |
| Flexible | m | mm ² | 1 x (0.75 - 2.5) 2 x (0.75 - 2.5) |
| Flexible with ferrule | m | mm ² | 1 x (0.75 - 1.5) 2 x (0.75 - 1.5) |
| Solid or stranded | А | AWG | 18 - 14 |
| Tool | | | |
| Main cable | | | |
| Pozidriv screwdriver | S | Size | 2 |
| Standard screwdriver | m | | 0.8 x 5.5 1 x 6 |
| Control circuit cables | | | |
| Pozidriv screwdriver | S | Size | 2 |
| Standard screwdriver | m | | 0.8 x 5.5 1 x 6 |
| Main conducting paths Rated impulse withstand voltage Uimp | V | V AC | 8000 |

| Rated impulse withstand voltage | U _{imp} | V AC | 8000 |
|---------------------------------------|------------------|------|-------|
| Overvoltage category/pollution degree | | | III/3 |

| Rated insulation voltage | Ui | 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 (cos φ) | Up to 690 V | Α | 700 |
| | | | According to IEC/EN 60947 |
| Breaking capacity | | | |
| 220 V 230 V | | Α | 500 |
| 380 V 400 V | | Α | 500 |
| 500 V | | Α | 500 |
| 660 V 690 V | | Α | 296 |
| Short-circuit rating | | | |
| Short-circuit protection maximum fuse | | | |
| Type "2" coordination | | | |
| 400 V | | A | 80 |
| 690 V | gG/gL 690 V | Α | 63 |
| Type "1" coordination | -0/-1 50034 | | 100 |
| 400 V | gG/gL 500 V | | 160 |
| 690 V AC | gG/gL 690 V | А | 80 |
| AC-1 | | | |
| Rated operational current | | | |
| Conventional free air thermal current, 3 pole, 50 - 60 Hz | | | |
| Open | | | |
| at 40 °C | I _{th} =I _e | Α | 80 |
| at 50 °C | I _{th} =I _e | Α | 76 |
| at 55 °C | I _{th} =I _e | A | 73 |
| at 60 °C | | | |
| | I _{th} =I _e | A | 69 |
| enclosed | I _{th} | Α | 64 |
| Conventional free air thermal current, 1 pole | | | 202 |
| open | I _{th} | A | 207 |
| enclosed | I _{th} | Α | 186 |
| Motor rating | Р | kWh | |
| 220/230 V | Р | kW | 29 |
| 240 V | Р | kW | 32 |
| 380/400 V | Р | kW | 50 |
| 415 V | Р | kW | 55 |
| 440 V | P | kW | 58 |
| 500 V | P | kW | 66 |
| 690 V | P | kW | 87 |
| AC-3 | | | |
| Rated operational current | | | |
| Open, 3-pole: 50 – 60 Hz | | | At maximum associated ambigutary and the second |
| Notes | | | At maximum permissible ambient temperature (open.) Also tested according to AC-3e. |
| 220 V 230 V | l _e | Α | 50 |
| 240 V | l _e | Α | 50 |
| 380 V 400 V | I _e | Α | 50 |
| 415 V | I _e | Α | 50 |
| 440V | l _e | Α | 50 |
| 500 V | I _e | A | 50 |
| 660 V 690 V | I _e | A | 32 |
| Motor rating | 'e P | kWh | - |
| 220 V 230 V | P | kW | 15.5 |
| 220 ¥ 200 ¥ | • | I/ A A | 10.0 |

| | _ | | _ |
|--|----------------|------------------|------------|
| 240V | Р | kW | 17 |
| 380 V 400 V | Р | kW | 22 |
| 415 V | P | kW | 30 |
| 440 V | P | kW | 32 |
| 500 V | P | kW | 36 |
| 660 V 690 V | Р | kW | 30 |
| DC | | | |
| Rated operational current, open | | | |
| DC-1 | | | |
| 60 V | Ie | A | 80 |
| 110 V | I _e | A | 80 |
| | | | |
| 220 V | l _e | Α | 80 |
| Current heat loss | | W | 25.0 |
| 3 pole, at I _{th} (60°) | | | 25.8 |
| Impedance per pole | | mΩ | 1.9 |
| Magnet systems | | | |
| Voltage tolerance | | | |
| AC operated 50 Hz | Pick-up | x U _c | 0.8 - 1.1 |
| AC operated 50/60 Hz | | x U _c | 0.85 - 1.1 |
| Drop-out voltage AC operated | Drop-out | x U _c | 0.4 - 0.6 |
| Power consumption of the coil in a cold state and 1.0 x U _S | | | |
| AC operated 50/60 Hz | Pick-up | VA | 150 |
| AC operated 50/60 Hz | Pick-up | W | 95 |
| | | | |
| AC operated 50/60 Hz | Sealing | VA | 16 |
| AC operated 50/60 Hz | Sealing | W | 4.1 |
| Duty factor | | % DF | 100 |
| Changeover time at 100 % U_S (recommended value) | | | |
| Main contacts | | | |
| AC operated | | | |
| Closing delay | | ms | 12 - 18 |
| Opening delay | | ms | 8 - 13 |
| Permissible residual current with actuation of A1 - A2 by the electronics (with 0 signal). | | mA | ≦1 |
| Rating data for approved types | | | |
| Switching capacity | | | |
| Maximum motor rating | | | |
| Three-phase | | | |
| 200 V | | НР | 15 |
| 208 V | | | |
| 230 V 240 V | | HP | 20 |
| | | ПБ | 40 |
| 460 V 480 V | | HP | 40 |
| 575 V | | НР | 50 |
| 600 V | | | |
| Single-phase | | | |
| 115 V 120 V | | HP | 3 |
| 230 V | | НР | 10 |
| 240 V | | | |
| General use | | Α | 80 |
| Short Circuit Current Rating | | SCCR | |
| Basic Rating | | | |
| SCCR | | kA | 10 |
| max. Fuse | | Α | 250 |
| max. CB | | A | 250 |
| 480 V High Fault | | | |
| SCCR (fuse) | | kA | 30/100 |
| Coon (tuse) | | N/S | 00,100 |

| max. Fuse | А | 250/150 Class J |
|--------------------------------------|----|-----------------|
| SCCR (CB) | kA | 65 |
| max. CB | А | 100 |
| 600 V High Fault | | |
| SCCR (fuse) | kA | 30/100 |
| max. Fuse | А | 250/150 Class J |
| SCCR (CB) | kA | 30 |
| max. CB | А | 250 |
| Special Purpose Ratings | | |
| Electrical Discharge Lamps (Ballast) | | |
| 480V 60Hz 3phase, 277V 60Hz 1phase | А | 79 |
| 600V 60Hz 3phase, 347V 60Hz 1phase | А | 79 |
| Incandescent Lamps (Tungsten) | | |
| 480V 60Hz 3phase, 277V 60Hz 1phase | А | 74 |
| 600V 60Hz 3phase, 347V 60Hz 1phase | Α | 74 |
| Resistance Air Heating | | |
| 480V 60Hz 3phase, 277V 60Hz 1phase | А | 79 |
| 600V 60Hz 3phase, 347V 60Hz 1phase | А | 79 |
| Elevator Control | | |
| 200V 60Hz 3phase | HP | 10 |
| 200V 60Hz 3phase | Α | 32.2 |
| 240V 60Hz 3phase | HP | 15 |
| 240V 60Hz 3phase | А | 42 |
| 480V 60Hz 3phase | HP | 30 |
| 480V 60Hz 3phase | Α | 40 |
| 600V 60Hz 3phase | НР | 40 |
| 600V 60Hz 3phase | А | 41 |
| | | |

Design verification as per IEC/EN 61439

| Technical data for design verification | | | |
|--|-------------------|----|--|
| Rated operational current for specified heat dissipation | In | Α | 80 |
| Heat dissipation per pole, current-dependent | P_{vid} | W | 8.6 |
| Equipment heat dissipation, current-dependent | P _{vid} | W | 25.8 |
| Static heat dissipation, non-current-dependent | P_{vs} | W | 4.1 |
| Heat dissipation capacity | P _{diss} | 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 | | | |

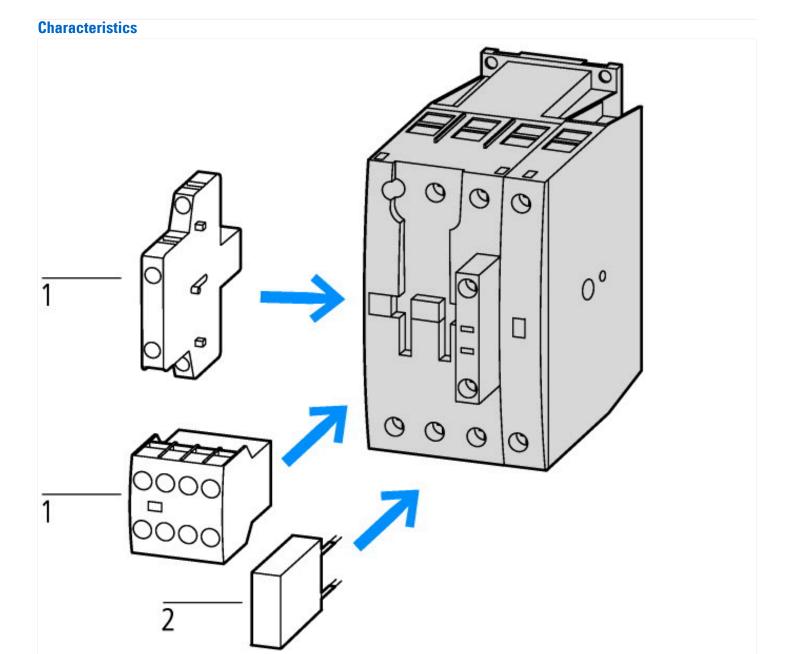
| 10.9.2 Power-frequency electric strength | Is the panel builder's responsibility. |
|--|--|
| 10.9.3 Impulse withstand voltage | Is the panel builder's responsibility. |
| 10.9.4 Testing of enclosures made of insulating material | Is the panel builder's responsibility. |
| 10.10 Temperature rise | 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. |

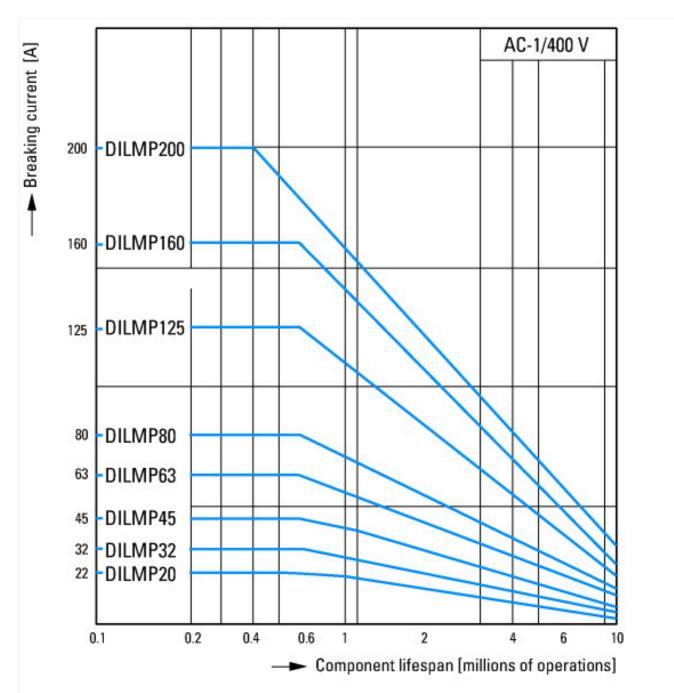
Technical data ETIM 7.0

| Low-voltage industrial components (EG000017) / Power contactor, AC switching (E | 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 | 240 - 240 | | |
| Rated control supply voltage Us at AC 60HZ | | V | 0 - 0 | | |
| Rated control supply voltage Us at DC | | V | 0 - 0 | | |
| Voltage type for actuating | | | AC | | |
| Rated operation current le at AC-1, 400 V | | Α | 80 | | |
| Rated operation current le at AC-3, 400 V | | Α | 50 | | |
| Rated operation power at AC-3, 400 V | | kW | 22 | | |
| Rated operation current le at AC-4, 400 V | | Α | 40 | | |
| Rated operation power at AC-4, 400 V | | kW | 20 | | |
| Rated operation power NEMA | | kW | 29.8 | | |
| Modular version | | | No | | |
| Number of auxiliary contacts as normally open contact | | | 0 | | |
| Number of auxiliary contacts as normally closed contact | | | 0 | | |
| Type of electrical connection of main circuit | | | Screw connection | | |
| Number of normally closed contacts as main contact | | | 0 | | |
| Number of main contacts as normally open contact | | | 4 | | |

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 |

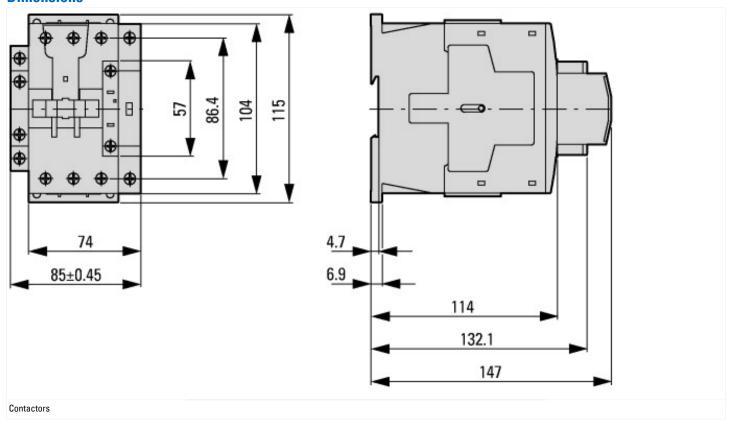


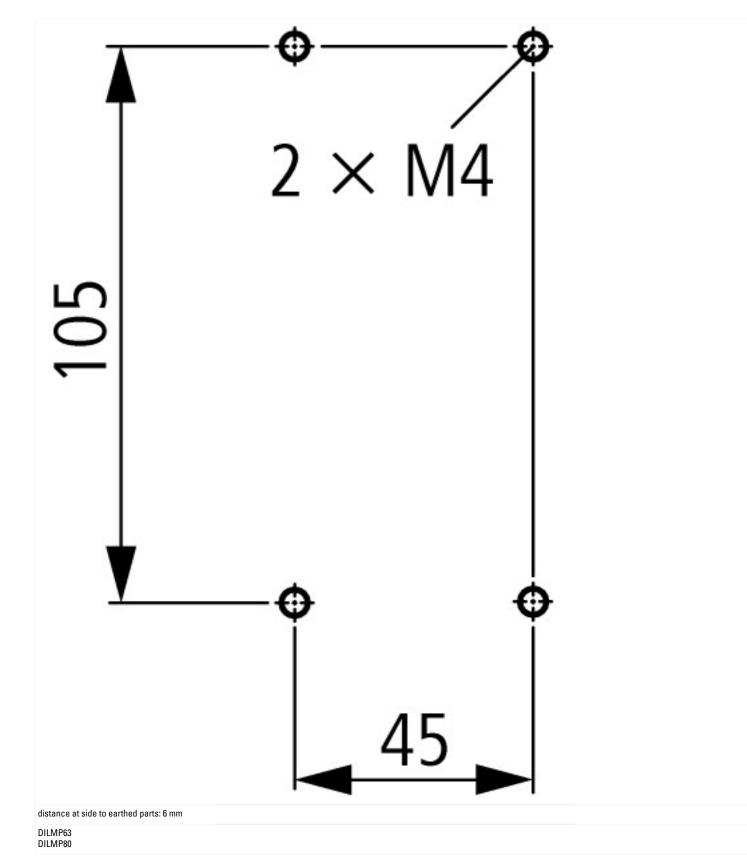


Switching conditions for 4 pole, non-motor loads Operating characteristics
Non inductive and slightly inductive loads Electrical characteristics
Switch on: 1 x rated operational current
Switch off: 1 x rated operational current
Utilization category
100 % AC-1
Typical examples of application

Electric heat

Dimensions





Additional product information (links)

Motor starters and "Special Purpose Ratings" for the North American market http://www.eaton.eu/ecm/groups/public/@pub/@europe/@electrical/documents/content/pct_3258146.pdf Switchgear of Power Factor Correction Systems http://www.moeller.net/binary/ver_techpapers/ver934en.pdf X-Start - Modern Switching Installations Efficiently Fitted and Wired Securely http://www.moeller.net/binary/ver_techpapers/ver938en.pdf Mirror Contacts for Highly-Reliable Information Relating to Safety-Related Control http://www.moeller.net/binary/ver_techpapers/ver944en.pdf Effect of the Cabel Capacitance of Long Control Cables on the Actuation of http://www.moeller.net/binary/ver_techpapers/ver949en.pdf Contactors http://www.moeller.net/binary/ver_techpapers/ver955en.pdf Switchgear for Luminaires Standard Compliant and Functionally Safe Engineering Design with Mechanical http://www.moeller.net/binary/ver_techpapers/ver956en.pdf **Auxiliary Contacts** The Interaction of Contactors with PLCs http://www.moeller.net/binary/ver_techpapers/ver957en.pdf