

# Specifications



## Eaton 197620

Eaton Moeller® series DILMT Power contactor, 3 pole, 380 V 400 V: 22 kW, 24 V 50/60 Hz, AC operation, Screw terminals

### General specifications

|                             |                                                    |
|-----------------------------|----------------------------------------------------|
| <b>PRODUCT NAME</b>         | Eaton Moeller® series DILMT Contactor              |
| <b>CATALOG NUMBER</b>       | 197620                                             |
| <b>MODEL CODE</b>           | DILMT50(24V50/60HZ)                                |
| <b>EAN</b>                  | 4015081944996                                      |
| <b>PRODUCT LENGTH/DEPTH</b> | 108.1 mm                                           |
| <b>PRODUCT HEIGHT</b>       | 103.6 mm                                           |
| <b>PRODUCT WIDTH</b>        | 55 mm                                              |
| <b>PRODUCT WEIGHT</b>       | 0.776 kg                                           |
| <b>CERTIFICATIONS</b>       | EN 60335-1<br>GB14048<br>IEC/EN 60947              |
| <b>CATALOG NOTES</b>        | Not suitable for motors with efficiency class IE3. |



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## Climatic environmental conditions

|                                     |       |
|-------------------------------------|-------|
| AMBIENT OPERATING TEMPERATURE - MAX | 55 °C |
|-------------------------------------|-------|

|                                   |       |
|-----------------------------------|-------|
| AMBIENT STORAGE TEMPERATURE - MAX | 80 °C |
|-----------------------------------|-------|

|                                     |        |
|-------------------------------------|--------|
| AMBIENT OPERATING TEMPERATURE - MIN | -25 °C |
|-------------------------------------|--------|

|                                   |        |
|-----------------------------------|--------|
| AMBIENT STORAGE TEMPERATURE - MIN | -40 °C |
|-----------------------------------|--------|

|                   |                                                                                |
|-------------------|--------------------------------------------------------------------------------|
| CLIMATIC PROOFING | Damp heat, cyclic, to IEC 60068-2-30<br>Damp heat, constant, to IEC 60068-2-78 |
|-------------------|--------------------------------------------------------------------------------|

## Electrical rating

|                                      |       |
|--------------------------------------|-------|
| RATED BREAKING CAPACITY AT 380/400 V | 400 A |
|--------------------------------------|-------|

|                               |       |
|-------------------------------|-------|
| RATED INSULATION VOLTAGE (UI) | 690 V |
|-------------------------------|-------|

|                                                             |      |
|-------------------------------------------------------------|------|
| RATED OPERATIONAL CURRENT (IE) AT AC-1, 380 V, 400 V, 415 V | 70 A |
|-------------------------------------------------------------|------|

|                                                             |      |
|-------------------------------------------------------------|------|
| RATED OPERATIONAL CURRENT (IE) AT AC-3, 220 V, 230 V, 240 V | 50 A |
|-------------------------------------------------------------|------|

|                                                             |      |
|-------------------------------------------------------------|------|
| RATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V | 50 A |
|-------------------------------------------------------------|------|

|                                                   |       |
|---------------------------------------------------|-------|
| RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ | 22 kW |
|---------------------------------------------------|-------|

|                                               |       |
|-----------------------------------------------|-------|
| RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ | 30 kW |
|-----------------------------------------------|-------|

|                                            |       |
|--------------------------------------------|-------|
| RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX | 690 V |
|--------------------------------------------|-------|

## Contacts

|                                                         |   |
|---------------------------------------------------------|---|
| NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS) | 0 |
|---------------------------------------------------------|---|

|                                                       |   |
|-------------------------------------------------------|---|
| NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS) | 0 |
|-------------------------------------------------------|---|

## Features & functions

|                 |            |
|-----------------|------------|
| NUMBER OF POLES | Three-pole |
|-----------------|------------|

## General information

|                                               |                                                                                                                                                                                                                           |
|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>APPLICATION</b>                            | Contactors for Motors                                                                                                                                                                                                     |
| <b>CONNECTION</b>                             | Screw terminals                                                                                                                                                                                                           |
| <b>CONNECTION TO SMARTWIRE-DT</b>             | No                                                                                                                                                                                                                        |
| <b>DEGREE OF PROTECTION</b>                   | IP20                                                                                                                                                                                                                      |
| <b>FRAME SIZE</b>                             | FS3                                                                                                                                                                                                                       |
| <b>LIFESPAN, ELECTRICAL</b>                   | 900,000 Operations (at 400V, AC-3)                                                                                                                                                                                        |
| <b>LIFESPAN, MECHANICAL</b>                   | 5,000,000 Operations (AC operated)                                                                                                                                                                                        |
| <b>OPERATING FREQUENCY</b>                    | 3600 mechanical Operations/h (AC operated)                                                                                                                                                                                |
| <b>OVERVOLTAGE CATEGORY</b>                   | III                                                                                                                                                                                                                       |
| <b>POLLUTION DEGREE</b>                       | 3                                                                                                                                                                                                                         |
| <b>PRODUCT CATEGORY</b>                       | Contactors                                                                                                                                                                                                                |
| <b>RATED IMPULSE WITHSTAND VOLTAGE (UIMP)</b> | 6000 V AC                                                                                                                                                                                                                 |
| <b>USED WITH</b>                              | DILMT95-XHI11-SR and DILT-XHI01(10)                                                                                                                                                                                       |
| <b>UTILIZATION CATEGORY</b>                   | AC-4: Normal AC induction motors: starting, plugging, reversing, inching<br>AC-3: Normal AC induction motors: starting, switch off during running<br>AC-1: Non-inductive or slightly inductive loads, resistance furnaces |
| <b>VOLTAGE TYPE</b>                           | AC                                                                                                                                                                                                                        |

## Magnet system

|                                                             |                                                                                                                                                                                                                                                                                                           |
|-------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PICK-UP VOLTAGE</b>                                      | 0.85 - 1.1 V AC x U <sub>c</sub>                                                                                                                                                                                                                                                                          |
| <b>POWER CONSUMPTION, PICK-UP, 50 HZ</b>                    | 0 VA, Dual-frequency coil in a cold state and 1.0 x U <sub>s</sub><br><br>220 VA, Dual-frequency coil in a cold state and 1.0 x U <sub>s</sub>                                                                                                                                                            |
| <b>POWER CONSUMPTION, PICK-UP, 60 HZ</b>                    | 0 VA, Dual-frequency coil in a cold state and 1.0 x U <sub>s</sub><br><br>220 VA, Dual-frequency coil in a cold state and 1.0 x U <sub>s</sub>                                                                                                                                                            |
| <b>POWER CONSUMPTION, SEALING, 50 HZ</b>                    | 0 W, Dual-frequency coil in a cold state and 1.0 x U <sub>s</sub><br>6 W, Coil in a cold state and 1.0 x U <sub>s</sub><br>5 W, Dual-frequency coil in a cold state and 1.0 x U <sub>s</sub>                                                                                                              |
| <b>POWER CONSUMPTION, SEALING, 60 HZ</b>                    | 0 VA, Dual-frequency coil in a cold state and 1.0 x U <sub>s</sub> , at 60 Hz<br>0 W, Dual-frequency coil in a cold state and 1.0 x U <sub>s</sub><br>5 W, Dual-frequency coil in a cold state and 1.0 x U <sub>s</sub><br>20 VA, Dual-frequency coil in a cold state and 1.0 x U <sub>s</sub> , at 60 Hz |
| <b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX</b> | 24 V                                                                                                                                                                                                                                                                                                      |
| <b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN</b> | 24 V                                                                                                                                                                                                                                                                                                      |
| <b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX</b> | 24 V                                                                                                                                                                                                                                                                                                      |
| <b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN</b> | 24 V                                                                                                                                                                                                                                                                                                      |

## Terminal capacities

|                                          |                                                                                                                                                                      |
|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SCREW SIZE                               | M6, Terminal screw<br>M3.5, Terminal screw                                                                                                                           |
| SCREWDRIVER SIZE                         | 2, Terminal screw, Pozidriv screwdriver<br>2, Terminal screw, Control circuit cables, Pozidriv screwdriver                                                           |
| STRIPPING LENGTH (CONTROL CIRCUIT CABLE) | 14 mm                                                                                                                                                                |
| STRIPPING LENGTH (MAIN CABLE)            | 14 mm                                                                                                                                                                |
| TERMINAL CAPACITY (SOLID)                | 2 x (0.75 - 2.5) mm <sup>2</sup><br>1 x (0.75 - 2.5) mm <sup>2</sup><br>1 x (2.5 - 25) mm <sup>2</sup> , Main cables<br>2 x (2.5 - 16) mm <sup>2</sup> , Main cables |
| TERMINAL CAPACITY (STRANDED)             | 1 x (2.5 - 25) mm <sup>2</sup><br>2 x (2.5 - 16) mm <sup>2</sup>                                                                                                     |
| TIGHTENING TORQUE                        | 1.2 Nm, Screw terminals<br>2.5 Nm                                                                                                                                    |

## Resources

|                           |                                                                                                                                                                                                                                                                    |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| BROCHURES                 | <a href="#">eaton-powerxl-variable-frequency-drives-hvac-brochure-br040012en-en-us.pdf</a><br><a href="#">eaton-dilat-dilmt-contactors-zbt-motor-protection-relay-brochure-br034003en-en-us.pdf</a>                                                                |
| DRAWINGS                  | <a href="#">eaton-contactors-contactor-dimensions-005.eps</a><br><a href="#">eaton-contactors-contactor-dimensions-003.eps</a><br><a href="#">eaton-contactors-contactor-3d-drawing-002.eps</a><br><a href="#">eaton-general-mounting-contactor-3d-drawing.eps</a> |
| ECAD MODEL                | <a href="#">DA-CE-ETN.DILMT50(24V50_60HZ)</a>                                                                                                                                                                                                                      |
| INSTALLATION INSTRUCTIONS | <a href="#">IL034051ZU</a>                                                                                                                                                                                                                                         |
| WIRING DIAGRAMS           | <a href="#">eaton-contactors-contact-dilm-wiring-diagram-003.eps</a>                                                                                                                                                                                               |

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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