

# Specifications



Photo is representative



## Eaton 102980

Eaton Moeller® series MSC-D DOL starter,  
380 V 400 V 415 V: 15 kW, I<sub>r</sub>= 25 - 32 A, 24 V  
DC, DC voltage MSC-D-32-M32(24VDC)/BBA

### General specifications

|                                 |                                                                                                                                                                                                                                                     |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PRODUCT NAME</b>             | Eaton Moeller® series<br>MSC-D DOL starter                                                                                                                                                                                                          |
| <b>CATALOG NUMBER</b>           | 102980                                                                                                                                                                                                                                              |
| <b>MODEL CODE</b>               | MSC-D-32-<br>M32(24VDC)/BBA                                                                                                                                                                                                                         |
| <b>EAN</b>                      | 4015081028191                                                                                                                                                                                                                                       |
| <b>PRODUCT<br/>LENGTH/DEPTH</b> | 156 mm                                                                                                                                                                                                                                              |
| <b>PRODUCT HEIGHT</b>           | 200 mm                                                                                                                                                                                                                                              |
| <b>PRODUCT WIDTH</b>            | 45 mm                                                                                                                                                                                                                                               |
| <b>PRODUCT WEIGHT</b>           | 1.14 kg                                                                                                                                                                                                                                             |
| <b>CERTIFICATIONS</b>           | CSA Class No.: 3211-04<br>UL Category Control No.:<br>NKJH<br>CSA File No.: 012528<br>UL<br>UL60947-4-1A<br>CSA-C22.2 No. 14-10<br>UL File No.: E123500<br>CSA<br>CE<br>CSA-C22.2 No. 14 (on<br>request)<br>IEC/EN 60947-4-1<br>UL 508 (on request) |

## Climatic environmental conditions

|                                            |             |
|--------------------------------------------|-------------|
| <b>ALTITUDE</b>                            | Max. 2000 m |
| <b>AMBIENT OPERATING TEMPERATURE - MAX</b> | 55 °C       |
| <b>AMBIENT OPERATING TEMPERATURE - MIN</b> | -25 °C      |

## Design verification

|                                                                                         |                                                                                                                                  |
|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <b>10.10 TEMPERATURE RISE</b>                                                           | The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices. |
| <b>10.11 SHORT-CIRCUIT RATING</b>                                                       | Is the panel builder's responsibility. The specifications for the switchgear must be observed.                                   |
| <b>10.12 ELECTROMAGNETIC COMPATIBILITY</b>                                              | Is the panel builder's responsibility. The specifications for the switchgear must be observed.                                   |
| <b>10.13 MECHANICAL FUNCTION</b>                                                        | The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.                         |
| <b>10.2.2 CORROSION RESISTANCE</b>                                                      | Meets the product standard's requirements.                                                                                       |
| <b>10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES</b>                         | Meets the product standard's requirements.                                                                                       |
| <b>10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS TO NORMAL HEAT</b>       | Meets the product standard's requirements.                                                                                       |
| <b>10.2.3.3 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS</b> | Meets the product standard's requirements.                                                                                       |
| <b>10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION</b>                                 | Meets the product standard's requirements.                                                                                       |
| <b>10.2.5 LIFTING</b>                                                                   | Does not apply, since the entire switchgear needs to be evaluated.                                                               |
| <b>10.2.6 MECHANICAL IMPACT</b>                                                         | Does not apply, since the entire switchgear needs to be evaluated.                                                               |
| <b>10.2.7 INSCRIPTIONS</b>                                                              | Meets the product standard's requirements.                                                                                       |
| <b>10.3 DEGREE OF PROTECTION OF ASSEMBLIES</b>                                          | Does not apply, since the entire switchgear needs to be evaluated.                                                               |
| <b>10.4 CLEARANCES AND CREEPAGE DISTANCES</b>                                           | Meets the product standard's requirements.                                                                                       |
| <b>10.5 PROTECTION</b>                                                                  | Does not apply, since the                                                                                                        |

|                                                                      |                                                                    |
|----------------------------------------------------------------------|--------------------------------------------------------------------|
| <b>AGAINST ELECTRIC SHOCK</b>                                        | entire switchgear needs to be evaluated.                           |
| <b>10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS</b>        | Does not apply, since the entire switchgear needs to be evaluated. |
| <b>10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS</b>             | Is the panel builder's responsibility.                             |
| <b>10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS</b>                      | Is the panel builder's responsibility.                             |
| <b>10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH</b>                      | Is the panel builder's responsibility.                             |
| <b>10.9.3 IMPULSE WITHSTAND VOLTAGE</b>                              | Is the panel builder's responsibility.                             |
| <b>10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL</b>      | Is the panel builder's responsibility.                             |
| <b>EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID</b>            | 22.2 W                                                             |
| <b>HEAT DISSIPATION CAPACITY PDISS</b>                               | 0 W                                                                |
| <b>HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID</b>             | 7.4 W                                                              |
| <b>RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)</b> | 32 A                                                               |
| <b>STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS</b>            | 0.9 W                                                              |

## Electrical rating

|                                           |        |
|-------------------------------------------|--------|
| <b>RATED OPERATIONAL<br/>CURRENT (IE)</b> | 29.3 A |
|-------------------------------------------|--------|

|                                                                            |      |
|----------------------------------------------------------------------------|------|
| <b>RATED OPERATIONAL<br/>CURRENT (IE) AT AC-3,<br/>380 V, 400 V, 415 V</b> | 32 A |
|----------------------------------------------------------------------------|------|

|                                                                  |        |
|------------------------------------------------------------------|--------|
| <b>RATED OPERATIONAL<br/>POWER AT AC-3, 220/230<br/>V, 50 HZ</b> | 7.5 kW |
|------------------------------------------------------------------|--------|

|                                                                  |       |
|------------------------------------------------------------------|-------|
| <b>RATED OPERATIONAL<br/>POWER AT AC-3, 380/400<br/>V, 50 HZ</b> | 15 kW |
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|                                      |                |
|--------------------------------------|----------------|
| <b>RATED OPERATIONAL<br/>VOLTAGE</b> | 230 - 415 V AC |
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|                                                                     |                                                     |
|---------------------------------------------------------------------|-----------------------------------------------------|
| <b>SWITCHING CAPACITY<br/>(AUXILIARY CONTACTS,<br/>GENERAL USE)</b> | 1 A, 250 V DC, (UL/CSA)<br>15 A, 600 V AC, (UL/CSA) |
|---------------------------------------------------------------------|-----------------------------------------------------|

|                                                                    |                                                                |
|--------------------------------------------------------------------|----------------------------------------------------------------|
| <b>SWITCHING CAPACITY<br/>(AUXILIARY CONTACTS,<br/>PILOT DUTY)</b> | A600, AC operated<br>(UL/CSA)<br>P300, DC operated<br>(UL/CSA) |
|--------------------------------------------------------------------|----------------------------------------------------------------|

## Features & functions

|                     |                       |
|---------------------|-----------------------|
| <b>FITTED WITH:</b> | Short-circuit release |
|---------------------|-----------------------|

|                  |                                                   |
|------------------|---------------------------------------------------|
| <b>FUNCTIONS</b> | Temperature<br>compensated overload<br>protection |
|------------------|---------------------------------------------------|

## General information

|                                                                |                                       |
|----------------------------------------------------------------|---------------------------------------|
| <b>CLASS</b>                                                   | CLASS 10 A                            |
| <b>CONNECTION</b>                                              | Screw terminals                       |
| <b>CONNECTION TO SMARTWIRE-DT</b>                              | No                                    |
| <b>COORDINATION TYPE</b>                                       | 2                                     |
| <b>DEGREE OF PROTECTION</b>                                    | IP00<br>NEMA Other                    |
| <b>MODEL</b>                                                   | IEC starter                           |
| <b>MOUNTING METHOD</b>                                         | Mounting on Busbar 60 mm              |
| <b>NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)</b> | 0                                     |
| <b>NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)</b>   | 1                                     |
| <b>OVERLOAD RELEASE CURRENT SETTING - MAX</b>                  | 32 A                                  |
| <b>OVERLOAD RELEASE CURRENT SETTING - MIN</b>                  | 25 A                                  |
| <b>OVERVOLTAGE CATEGORY</b>                                    | III                                   |
| <b>POLLUTION DEGREE</b>                                        | 3                                     |
| <b>RATED IMPULSE WITHSTAND VOLTAGE (UIMP)</b>                  | 6000 V AC                             |
| <b>SUITABLE FOR</b>                                            | Also motors with efficiency class IE3 |
| <b>TYPE</b>                                                    | Starter with Bi-Metal release         |
| <b>VOLTAGE TYPE</b>                                            | DC                                    |

## Short-circuit rating

|                                                                                  |                                                                                      |
|----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <b>RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ), TYPE 2, 380 V, 400 V, 415 V</b> | 50000 A                                                                              |
| <b>SHORT-CIRCUIT CURRENT RATING (BASIC RATING)</b>                               | 15 A, max. CB, SCCR (UL/CSA)<br>5 kA, SCCR (UL/CSA)<br>3 A, max. Fuse, SCCR (UL/CSA) |
| <b>SHORT-CIRCUIT RELEASE (IRM) - MAX</b>                                         | 496 A                                                                                |

## Magnet system

|                                                      |       |
|------------------------------------------------------|-------|
| <b>POWER CONSUMPTION (SEALING) AT DC</b>             | 0.5 W |
| <b>RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX</b> | 24 V  |
| <b>RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN</b> | 24 V  |

## Resources

|                                   |                                                                                                                                                                            |
|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>BROCHURES</b>                  | <a href="#">eaton-msfs-motor-starter-feeder-system-brochure-br034005en-en-us.pdf</a><br><a href="#">eaton-motor-starters-system-xstart-brochure-br03407001en-en-us.pdf</a> |
| <b>CATALOGUES</b>                 | <a href="#">eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf</a>                                                                                     |
| <b>DECLARATIONS OF CONFORMITY</b> | <a href="#">eaton-dol-starter-declaration-of-conformity-eu250676en.pdf</a>                                                                                                 |

|                           |                                                                                                                                                                                                                                                         |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                           | <a href="#">eaton-dol-starter-declaration-of-conformity-uk251159en.pdf</a>                                                                                                                                                                              |
| DRAWINGS                  | <a href="#">eaton-manual-motor-starters-adapter-msc-d-dol-starter-dimensions-002.eps</a><br><a href="#">eaton-general-ie-ready-dilm-contactor-standards.eps</a><br><a href="#">eaton-manual-motor-starters-adapter-msc-d-dol-starter-3d-drawing.eps</a> |
| ECAD MODEL                | <a href="#">ETN.102980.edz</a>                                                                                                                                                                                                                          |
| INSTALLATION INSTRUCTIONS | <a href="#">IL03402015Z</a> <a href="#">IL03402010Z</a>                                                                                                                                                                                                 |
| INSTALLATION VIDEOS       | <a href="#">WIN-WIN with push-in technology</a>                                                                                                                                                                                                         |
| MCAD MODEL                | <a href="#">eaton-motor-starter-mcad-drawings-msc-d-bba-bg2.dwg</a><br><a href="#">DA-CS-msc d bba bg2</a>                                                                                                                                              |
| SALES NOTES               | <a href="#">eaton-link-module-for-motor-starters-pkz-flyer-fl034003en-en-us.pdf</a>                                                                                                                                                                     |
| WIRING DIAGRAMS           | <a href="#">eaton-manual-motor-starters-device-msc-d-dol-starter-wiring-diagram.eps</a>                                                                                                                                                                 |

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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