# Eaton 199119

Eaton Moeller® series Rapid Link - DOL starter, 6.6 A, Sensor input 4, Actuator output 2, 230/277 V AC, Ethernet IP, HAN Q4/2, with manual override switch

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| **PRODUCT NAME** | Eaton Rapid Link DOL starter |
| **CATALOG NUMBER** | 199119 |
| **PRODUCT LENGTH/DEPTH** | 120 mm |
| **PRODUCT HEIGHT** | 270 mm |
| **PRODUCT WIDTH** | 220 mm |
| **PRODUCT WEIGHT** | 1.83 kg |
| **CERTIFICATIONS** | UL approval<br>IEC/EN 60947-4-2<br>RoHS<br>CE<br>UL 60947-4-2<br>CCC<br>UL 60947-4-2 |
| **CATALOG NOTES** | Assigned motor rating: for normal internally and externally ventilated 4 pole, three-phase asynchronous motors with 1500 rpm at 50 Hz or 1800 min at 60 Hz |

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| **TYPE** | DOL starter |
| **FEATURES** | Parameterization: Fieldbus<br><br>Parameterization: drivesConnect<br>Parameterization: Keypad<br>Parameterization: drivesConnect mobile (App) |
| **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. |
| **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 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. 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. |

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| **ECAD MODEL** | ETN.RAMO5-D422EIP-412RS1.edz |
| **MCAD MODEL** | ramo5_v13.dwg<br><br>ramo5_v13.stp |
| | IL034092ZU |
| | eaton-rapid-link-5-brochure-br040014en-en-us.pdf |
| | eaton-rapid-link-5-mn034004en-us.pdf |
| | eaton-bus-adapter-rapidlink-reversing-starter-dimensions-003.eps<br><br>eaton-bus-adapter-rapidlink-reversing-starter-dimensions-002.eps |

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| **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. |
| **10.9.2 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. |
| **FITTED WITH:** | Electronic motor protection<br>Key switch position AUTO<br>Manual override switch<br>Thermo-click<br>Key switch position OFF/RESET<br>Key switch position HAND<br>2 Actuator outputs<br>Two sensor inputs through M12 sockets (max. 150 mA) for quick stop and interlocked manual operation<br>Thermistor monitoring PTC<br>Short-circuit release |
| **CLASS** | CLASS 10 A |
| **LIFESPAN, ELECTRICAL** | 10,000,000 Operations (at AC-3) |
| **CLIMATIC PROOFING** | In accordance with IEC/EN 50178 |

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| | < 95 %, no condensation |
| **RATED IMPULSE WITHSTAND VOLTAGE (UIMP)** | 4000 V |
| **MODEL** | Direct starter |
| **ALTITUDE** | Max. 1000 m<br>Max. 2000 m<br>Above 1000 m with 1 % performance reduction per 100 m |
| **LIFESPAN, MECHANICAL** | 10,000,000 Operations (at AC-3) |
| **MAINS SWITCH-ON FREQUENCY** | Maximum of one time every 60 seconds |
| **ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT** | Plug-in connection |
| **MAINS VOLTAGE TOLERANCE** | 380 - 480 V (-15 %/+10 %, at 50/60 Hz) |
| **VOLTAGE TYPE** | DC |
| **MOUNTING POSITION** | Vertical |
| **RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ)** | 10 kA |
| **OVERVOLTAGE CATEGORY** | III |
| **CONNECTION** | Connections pluggable in power section |
| **OFF-DELAY** | 20 - 35 ms |
| **FUNCTIONS** | For actuation of motors with mechanical brake<br>External reset possible<br>Temperature compensated overload protection |
| **ON-DELAY** | 20 - 35 ms |
| **SYSTEM CONFIGURATION TYPE** | Phase-earthed AC supply systems are not permitted.<br>AC voltage<br>Center-point earthed star network (TN-S network) |
| **BRAKING CURRENT** | ≤ 0.6 A (max. 6 A for 120 ms), Actuator for external motor brake |
| **ELECTROMAGNETIC COMPATIBILITY** | Class A |
| **CURRENT LIMITATION** | Adjustable, motor, main circuit |

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| | 0.3 - 6.6 A, motor, main circuit |
| **OUTPUT FREQUENCY** | 50/60 Hz |
| **BRAKING VOLTAGE** | 230/277 V AC -15 % / +10 %, Actuator for external motor brake |
| **OVERLOAD CYCLE** | AC-53a |
| **OVERLOAD RELEASE CURRENT SETTING - MIN** | 0.3 A |
| **RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ), TYPE 2, 230 V** | 0 A |
| **RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ), TYPE 2, 380 V, 400 V, 415 V** | 0 A |
| **RATED CONDITIONAL SHORT-CIRCUIT CURRENT, TYPE 1, 480 Y/277 V** | 10000 A |
| **RATED CONDITIONAL SHORT-CIRCUIT CURRENT, TYPE 1, 600 Y/347 V** | 0 A |
| **RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX** | 0 V |
| **RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN** | 0 V |
| **RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX** | 0 V |
| **RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN** | 0 V |
| **RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX** | 0 V |
| **RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN** | 0 V |
| **RATED FREQUENCY - MAX** | 63 Hz |
| **RATED FREQUENCY - MIN** | 47 Hz |
| **RATED OPERATIONAL CURRENT (IE) AT 150% OVERLOAD** | 6.6 A |
| **RATED OPERATIONAL** | 6.6 A |

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| **CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V** | |
| **SHOCK RESISTANCE** | 15 g, Mechanical, According to IEC/EN 60068-2-27, 11 ms, Half-sinusoidal shock 11 ms, 1000 shocks per shaft |
| **PROTOCOL** | EtherNet/IP |
| **RATED CONTROL VOLTAGE (UC)** | 24 V DC (-15 %/+20 %, external via AS-Interface® plug)<br>230/277 V AC (external brake 50/60 Hz) |
| **SUPPLY FREQUENCY** | 50/60 Hz, fLN, Main circuit |
| **RATED OPERATIONAL CURRENT (IE)** | 6.6 A |
| **RATED OPERATIONAL POWER AT 380/400 V, 50 HZ - MAX** | 3 kW |
| **RATED OPERATIONAL POWER AT 380/400 V, 50 HZ - MIN** | 0.09 kW |
| **RATED OPERATIONAL VOLTAGE** | 400 V AC, 3-phase<br>480 V AC, 3-phase |
| **SHORT-CIRCUIT PROTECTION (EXTERNAL OUTPUT CIRCUITS)** | Type 1 coordination via the power bus' feeder unit, Main circuit |
| **VIBRATION** | Resistance: 6 Hz, Amplitude 0.15 mm<br>Resistance: 57 Hz, Amplitude transition frequency on acceleration<br>Resistance: According to IEC/EN 60068-2-6<br>Resistance: 10 - 150 Hz, Oscillation frequency |
| **AMBIENT OPERATING TEMPERATURE - MAX** | 55 °C |
| **AMBIENT OPERATING TEMPERATURE - MIN** | -10 °C |
| **AMBIENT STORAGE TEMPERATURE - MAX** | 70 °C |
| **AMBIENT STORAGE TEMPERATURE - MIN** | -40 °C |
| **ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE** | 3 HP |
| **NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)** | 0 |

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| **NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)** | 2 |
| **NUMBER OF COMMAND POSITIONS** | 1 |
| **NUMBER OF PILOT LIGHTS** | 0 |
| **OVERLOAD RELEASE CURRENT SETTING - MAX** | 6.6 A |
| **RATED OPERATIONAL POWER AT AC-3, 220/230 V, 50 HZ** | 0 kW |
| **RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ** | 3 kW |
| **RATED POWER AT 460 V, 60 HZ, 3-PHASE** | 2.238 kW |
| **RATED POWER AT 575 V, 60 HZ, 3-PHASE** | 0 kW |
| **PRODUCT CATEGORY** | Motor starter |
| **CABLE LENGTH** | 10 m, Radio interference level, maximum motor cable length |
| **COORDINATION CLASS (IEC 60947-4-3)** | Class 1 |
| **DEGREE OF PROTECTION** | IP65<br>NEMA 12 |
| **ELECTRICAL CONNECTION TYPE FOR AUXILIARY- AND CONTROL-CURRENT CIRCUIT** | Plug-in connection |
| **INPUT CURRENT** | 6.6 A (at 150 % Overload) |
| **POWER CONSUMPTION** | 8 W |

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| **PROJECT NAME:** | |
| **PROJECT NUMBER:** | |
| **PREPARED BY:** | |
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Eaton House
30 Pembroke Road
Dublin 4,
Eaton.com



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