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## Eaton 199122

Eaton Moeller® series Rapid Link - Reversing starter, 6.6 A, Sensor input 4, Actuator output 2, 180/207 V DC, Ethernet IP, HAN Q4/2, with manual override switch

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<b>PRODUCT NAME</b>	Eaton Rapid Link Reversing starter
<b>CATALOG NUMBER</b>	199122
<b>PRODUCT LENGTH/DEPTH</b>	120 mm
<b>PRODUCT HEIGHT</b>	270 mm
<b>PRODUCT WIDTH</b>	220 mm
<b>PRODUCT WEIGHT</b>	1.83 kg
<b>CERTIFICATIONS</b>	UL approval UL 60947-4-2 RoHS IEC/EN 60947-4-2 CE CCC
<b>CATALOG NOTES</b>	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

<b>TYPE</b>	Reversing starter
<b>FEATURES</b>	Parameterization: drivesConnect Parameterization: drivesConnect mobile (App) Parameterization: Keypad Parameterization: Fieldbus
<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.

DECLARATIONS OF CONFORMITY	<a href="#">eaton-reversing-starter-declaration-of-conformity-uk251319en.pdf</a>
ECAD MODEL	<a href="#">ETN.RAMO5-W421EIP-412RS1.edz</a>
MCAD MODEL	<a href="#">ramo5_v14.dwg</a> <a href="#">ramo5_v14.stp</a>
□□□□□	<a href="#">IL034092ZU</a>
□□□□	<a href="#">eaton-rapid-link-5-brochure-br040014en-en-us.pdf</a>
□□□□	<a href="#">eaton-rapid-link-5-mn034004en-us.pdf</a>
□□	<a href="#">eaton-bus-adapter-rapidlink-reversing-starter-dimensions-002.eps</a> <a href="#">eaton-bus-adapter-rapidlink-reversing-starter-dimensions-003.eps</a>

<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 AGAINST ELECTRIC SHOCK</b>	Does not apply, since the 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>FITTED WITH:</b>	<p>Two sensor inputs through M12 sockets (max. 150 mA) for quick stop and interlocked manual operation</p> <p>2 Actuator outputs</p> <p>Key switch position OFF/RESET</p> <p>Manual override switch</p> <p>Key switch position AUTO</p> <p>Thermistor monitoring</p> <p>PTC</p> <p>Key switch position HAND</p> <p>Thermo-click</p> <p>Electronic motor protection</p> <p>Short-circuit release</p>
<b>CLASS</b>	CLASS 10 A
<b>LIFESPAN, ELECTRICAL</b>	10,000,000 Operations (at AC-3)
<b>CLIMATIC PROOFING</b>	<p>&lt; 95 %, no condensation</p> <p>In accordance with IEC/EN 50178</p>
<b>RATED IMPULSE WITHSTAND VOLTAGE (UIMP)</b>	4000 V
<b>MODEL</b>	Reversing starter

<b>ALTITUDE</b>	Max. 2000 m Max. 1000 m Above 1000 m with 1 % performance reduction per 100 m
<b>LIFESPAN, MECHANICAL</b>	10,000,000 Operations (at AC-3)
<b>MAINS SWITCH-ON FREQUENCY</b>	Maximum of one time every 60 seconds
<b>ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT</b>	Plug-in connection
<b>MAINS VOLTAGE TOLERANCE</b>	380 - 480 V (-15 %/+10 %, at 50/60 Hz)
<b>VOLTAGE TYPE</b>	DC
<b>MOUNTING POSITION</b>	Vertical
<b>RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ)</b>	10 kA
<b>OVERVOLTAGE CATEGORY</b>	III
<b>CONNECTION</b>	Connections pluggable in power section
<b>OFF-DELAY</b>	20 - 35 ms
<b>FUNCTIONS</b>	For actuation of motors with mechanical brake External reset possible Temperature compensated overload protection
<b>ON-DELAY</b>	20 - 35 ms
<b>SYSTEM CONFIGURATION TYPE</b>	Phase-earthed AC supply systems are not permitted. AC voltage Center-point earthed star network (TN-S network)
<b>BRAKING CURRENT</b>	$\leq 0.6$ A (max. 6 A for 120 ms), Actuator for external motor brake
<b>ELECTROMAGNETIC COMPATIBILITY</b>	Class A
<b>CURRENT LIMITATION</b>	0.3 - 6.6 A, motor, main circuit Adjustable, motor, main circuit
<b>OUTPUT FREQUENCY</b>	50/60 Hz
<b>BRAKING VOLTAGE</b>	180/215 V DC -15 % / +10 %, Actuator for external motor brake
<b>OVERLOAD CYCLE</b>	AC-53a

<b>OVERLOAD RELEASE CURRENT SETTING - MIN</b>	0.3 A
<b>RATED CONDITIONAL SHORT-CIRCUIT CURRENT, TYPE 1, 480 Y/277 V</b>	10000 A
<b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN</b>	0 V
<b>RATED FREQUENCY - MAX</b>	63 Hz
<b>RATED FREQUENCY - MIN</b>	47 Hz
<b>RATED OPERATIONAL CURRENT (IE) AT 150% OVERLOAD</b>	6.6 A
<b>RATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V</b>	6.6 A
<b>SHOCK RESISTANCE</b>	15 g, Mechanical, According to IEC/EN 60068-2-27, 11 ms, Half- sinusoidal shock 11 ms, 1000 shocks per shaft
<b>PROTOCOL</b>	EtherNet/IP
<b>RATED CONTROL VOLTAGE (UC)</b>	24 V DC (-15 %/+20 %, external via AS-Interface® plug) 180/207 V DC (external brake 50/60 Hz)
<b>SUPPLY FREQUENCY</b>	50/60 Hz, fLN, Main circuit
<b>RATED OPERATIONAL CURRENT (IE)</b>	6.6 A
<b>RATED OPERATIONAL POWER AT 380/400 V, 50 HZ - MAX</b>	3 kW
<b>RATED OPERATIONAL POWER AT 380/400 V, 50 HZ - MIN</b>	0.09 kW
<b>RATED OPERATIONAL VOLTAGE</b>	480 V AC, 3-phase 400 V AC, 3-phase
<b>SHORT-CIRCUIT PROTECTION (EXTERNAL OUTPUT CIRCUITS)</b>	Type 1 coordination via the power bus' feeder unit, Main circuit
<b>VIBRATION</b>	Resistance: 10 - 150 Hz, Oscillation frequency Resistance: 57 Hz, Amplitude transition frequency on acceleration Resistance: 6 Hz, Amplitude 0.15 mm Resistance: According to IEC/EN 60068-2-6
<b>AMBIENT OPERATING</b>	55 °C

<b>TEMPERATURE - MAX</b>	
<b>AMBIENT OPERATING TEMPERATURE - MIN</b>	-10 °C
<b>AMBIENT STORAGE TEMPERATURE - MAX</b>	70 °C
<b>AMBIENT STORAGE TEMPERATURE - MIN</b>	-40 °C
<b>ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE</b>	3 HP
<b>NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)</b>	0
<b>NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)</b>	2
<b>NUMBER OF COMMAND POSITIONS</b>	2
<b>NUMBER OF PILOT LIGHTS</b>	0
<b>OVERLOAD RELEASE CURRENT SETTING - MAX</b>	6.6 A
<b>RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ</b>	3 kW
<b>RATED POWER AT 460 V, 60 HZ, 3-PHASE</b>	2.238 kW
<b>PRODUCT CATEGORY</b>	Motor starter
<b>CABLE LENGTH</b>	10 m, Radio interference level, maximum motor cable length
<b>COORDINATION CLASS (IEC 60947-4-3)</b>	Class 1
<b>DEGREE OF PROTECTION</b>	NEMA 12 IP65
<b>ELECTRICAL CONNECTION TYPE FOR AUXILIARY- AND CONTROL-CURRENT CIRCUIT</b>	Plug-in connection
<b>INPUT CURRENT</b>	6.6 A (at 150 % Overload)
<b>POWER CONSUMPTION</b>	8 W

