Specifications

Photo is representative

Eaton 199066

Eaton Moeller® series Rapid Link - DOL starter, 6.6 A, Sensor input 2, 230/277 V AC, AS-Interface®, S-7.A.E. for 62 modules, HAN Q4/2

General specifications		
PRODUCT NAME	Eaton Rapid Link DOL starter	
CATALOG NUMBER	199066	
EAN	4015081971244	
PRODUCT LENGTH/DEPTH	120 mm	
PRODUCT HEIGHT	270 mm	
PRODUCT WIDTH	220 mm	
PRODUCT WEIGHT	1.63 kg	
CERTIFICATIONS	RoHS UL approval CE UL 60947-4-2 IEC/EN 60947-4-2 CCC 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	
MODEL CODERAMO5-D202A32-412057		



Features & Functions		
	Parameterization: drivesConnect mobile (App) Parameterization: Fieldbus	
FEATURES	Parameterization: Keypad Parameterization: drivesConnect Diagnostics and reset on device and via AS-Interface	
FITTED WITH:	Electronic motor protection Key switch position HAND Thermistor monitoring PTC Key switch position OFF/RESET Key switch position AUTO Thermo-click Two sensor inputs through M12 sockets (max. 150 mA) for quick stop and interlocked manual operation Short-circuit release	
FUNCTIONS	For actuation of motors with mechanical brake External reset possible Temperature compensated overload protection	

General		
CLASS	CLASS 10 A	
DEGREE OF PROTECTION	IP65 NEMA 12	
ELECTROMAGNETIC COMPATIBILITY	Class A	
LIFESPAN, ELECTRICAL	10,000,000 Operations (at AC-3)	
LIFESPAN, MECHANICAL	10,000,000 Operations (at AC-3)	
MODEL	Direct starter	
OVERLOAD RELEASE CURRENT SETTING - MIN	0.3 A	
OVERLOAD RELEASE CURRENT SETTING - MAX	6.6 A	
OVERVOLTAGE CATEGORY	III	
PRODUCT CATEGORY	Motor starter	
PROTOCOL	AS-Interface profile cable: S-7.4 for 62 modules ASI	
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	4000 V	
SYSTEM CONFIGURATION TYPE	AC voltage Center-point earthed star network (TN-S network) Phase-earthed AC supply systems are not permitted.	
ТҮРЕ	DOL starter	
VOLTAGE TYPE	DC	

Ambient conditions, mechanical

MOUNTING POSITION	Vertical	
SHOCK RESISTANCE	15 g, Mechanical, According to IEC/EN 60068-2-27, 11 ms, Half- sinusoidal shock 11 ms, 1000 shocks per shaft	
VIBRATION	Resistance: 57 Hz, Amplitude transition frequency on acceleration Resistance: According to IEC/EN 60068-2-6 Resistance: 10 - 150 Hz, Oscillation frequency Resistance: 6 Hz, Amplitude 0.15 mm	

ALTITUDE	Above 1000 m with 1 % performance reduction per 100 m Max. 2000 m Max. 1000 m	
AMBIENT OPERATING TEMPERATURE - MIN	-10 °C	
AMBIENT OPERATING TEMPERATURE - MAX	55 °C	
AMBIENT STORAGE TEMPERATURE - MIN	-40 °C	
AMBIENT STORAGE TEMPERATURE - MAX	70 °C	
CLIMATIC PROOFING	< 95 %, no condensation In accordance with IEC/EN 50178	

Climatic environmental conditions

Main circuit

CURRENT LIMITATION	0.3 - 6.6 A, motor, main circuit Adjustable, motor, main circuit	
INPUT CURRENT	6.6 A (at 150 % Overload)	
MAINS SWITCH-ON FREQUENCY	Maximum of one time every 60 seconds	
MAINS VOLTAGE TOLERANCE	380 - 480 V (-15 %/+10 %, at 50/60 Hz)	
OFF-DELAY	20 - 35 ms	
ON-DELAY	20 - 35 ms	
OUTPUT FREQUENCY	50/60 Hz	
OVERLOAD CYCLE	AC-53a	
RATED FREQUENCY - MIN	47 Hz	
RATED FREQUENCY - MAX	63 Hz	
RATED OPERATIONAL CURRENT (IE)	6.6 A	
RATED OPERATIONAL CURRENT (IE) AT 150% OVERLOAD	6.6 A	
RATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V	6.6 A	
RATED OPERATIONAL POWER AT 380/400 V, 50 HZ - MIN	0.09 kW	
RATED OPERATIONAL POWER AT 380/400 V, 50 HZ - MAX	3 kW	
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 OPERATIONAL VOLTAGE	400 V AC, 3-phase 480 V AC, 3-phase	
SUPPLY FREQUENCY	50/60 Hz, fLN, Main circuit	
SYSTEM CONFIGURATION TYPE	AC voltage Center-point earthed star network (TN-S network) Phase-earthed AC supply systems are not permitted.	

Motor rating

ASSIGNED MOTOR POWER AT 460/480 V, 60 3 HP HZ, 3-PHASE

Braking function

BRAKING CURRENT	≤ 0.6 A (max. 6 A for 120 ms), Actuator for external motor brake
BRAKING VOLTAGE	230/277 V AC -15 % / +10 %, Actuator for external motor brake

Short-circuit rating

Communication

RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ)	10 kA
RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ), TYPE 2, 380 V, 400 V, 415 V	0 A
SHORT-CIRCUIT PROTECTION (EXTERNAL OUTPUT CIRCUITS)	Type 1 coordination via the power bus' feeder unit, Main circuit

Control circuit		
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN	0 V	
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX	0 V	
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN	0 V	
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX	0 V	_
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN	0 V	
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX	0 V	
RATED CONTROL VOLTAGE (UC)	24 V DC (-15 %/+20 %, external via AS-Interface® plug) 230/277 V AC (external brake 50/60 Hz)	

0

0

CONNECTION	Connections pluggable in power section
INTERFACES	Specification: S-7.A.E. (AS- Interface®) Max. total power consumption from AS- Interface® power supply unit (30 V): 190 mA Number of slave addresses: 62 (AS- Interface®)

Contacts

NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)

NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)

Cable

CABLE LENGTH

10 m, Radio interference level, maximum motor cable length

Design verification

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.	
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	ls the panel builder's responsibility.	
10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS	ls the panel builder's responsibility.	
10.9.2 POWER- FREQUENCY ELECTRIC STRENGTH	ls the panel builder's responsibility.	
10.9.3 IMPULSE WITHSTAND VOLTAGE	ls the panel builder's responsibility.	
10.9.4 TESTING OF ENCLOSURES MADE OF	ls the panel builder's responsibility.	

Resources

APPLICATION NOTES

Electromagnetic compatibility (EMC)

eaton-rapid-linkgeneration-change-ramo4to-ramo5-ap040198-enus.pdf

eaton-powerxl-dx-comstick-3-ap040190-enus.pdf

eaton-rapid-link-5configuration-rockwell-plcap040195-en-us.pdf

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eaton-powerxl-da1-dc1de1-internal-motorprotection-ap040016-enus.pdf

BROCHURES

<u>eaton-rapid-link-5-</u> <u>brochure-br040014en-en-</u> <u>us.pdf</u>

INSULATING MATERIAL			ester neweryl veriable
10.10 TEMPERATURE RISE The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.		<u>eaton-powerxl-variable-</u> frequency-drives-material- handling-brochure- br040017en-en-us.pdf	
		<u>eaton-rapid-link-5-drive-</u> <u>system-catalog-</u> ca040002en-en-us	
10.11 SHORT-CIRCUITIs the panel builder's responsibility. The specifications for the	CATALOGUES	Product Range Catalog Drives Engineering	
	switchgear must be observed.		DA-DC-00003964.pdf
10.12 ELECTROMAGNETIC COMPATIBILITY	ILITY switchgear must be	DECLARATIONS OF CONFORMITY	DA-DC-00004184.pdf DA-DC-00004523.pdf DA-DC-00004525.pdf
10.13 MECHANICAL FUNCTION	observed. The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.	DRAWINGS	eaton-bus-adapter- rapidlink-reversing-starter- dimensions.eps eaton-bus-adapter- rapidlink-reversing-starter- dimensions-002.eps
		ECAD MODEL	ETN.RAMO5-D202A32- 4120S1.edz

INSTALLATION

INSTRUCTIONS

MCAD MODEL

INSTALLATION VIDEOS

SOFTWARE, FIRMWARE,

AND APPLICATIONS

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	

DATE:



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release-note-mz034006en-