DATASHEET - RAMO5-W200A32-512RS1

Reversing starter, 6.6 A, Sensor input 2, AS-Interface®, S-7.A.E. for 62 modules, HAN Q5, with manual override switch

Part no.	RAMO5-W200A32-512RS1
	199107

Product name			Eaton Moeller® series Rapid Link Reversing starter
Part no.			RAMO5-W200A32-512RS1
EAN			4015081971657
Product Length/Depth			120 millimetre
Product height			270 millimetre
Product width			220 millimetre
Product weight			1.8 kilogram
Certifications			IEC/EN 60947-4-2 UL approval UL 60947-4-2 CE CCC RoHS
Product Tradename			Rapid Link
Product Type			Reversing starter
Product Sub Type			None
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
Features			Parameterization: drivesConnect mobile (App) Parameterization: Fieldbus Diagnostics and reset on device and via AS-Interface Parameterization: Keypad Parameterization: drivesConnect
Fitted with:			Manual override switch Thermistor monitoring PTC Key switch position AUTO Key switch position OFF/RESET Two sensor inputs through M12 sockets (max. 150 mA) for quick stop and interlocked manual operation Electronic motor protection Thermo-click Key switch position HAND Short-circuit release
Functions			External reset possible Temperature compensated overload protection
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			Reversing 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			Center-point earthed star network (TN-S network) AC voltage Phase-earthed AC supply systems are not permitted.
Type			Reversing starter
Voltage type			DC

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: According to IEC/EN 60068-2-6 Resistance: 57 Hz, Amplitude transition frequency on acceleration Resistance: 10 - 150 Hz, Oscillation frequency Resistance: 6 Hz, Amplitude 0.15 mm
Altitude		Max. 1000 m Max. 2000 m Above 1000 m with 1 % performance reduction per 100 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
Current limitation		Adjustable, motor, main circuit 0.3 - 6.6 A, 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 - max		63 Hz
Rated frequency - min		47 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 - max		3 kW
Rated operational power at 380/400 V, 50 Hz - min		0.09 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
Assigned motor power at 460/480 V, 60 Hz, 3-phase		3 HP
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
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)
Connection		Connections pluggable in power section
Interfaces		Specification: S-7.A.E. (AS-Interface®) Number of slave addresses: 62 (AS-Interface®) Max. total power consumption from AS-Interface® power supply unit (30 V): 190 mA

Number of auxiliary contacts (normally closed contacts)			0
Number of auxiliary contacts (normally open contacts)			0
Cable length			10 m, Radio interference level, maximum motor cable length
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			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.
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.

Technical data ETIM 8.0

Low-voltage industrial components (EG000017) / Motor starter/Motor starter combination (EC001037)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Load breakout, motor breakout / Motor starter combination (ecl@ss10.0.1-27-37-09-05 [AJZ718013])

Type of motor starter			Reversing starter
With short-circuit release			Yes
Rated control supply voltage Us at AC 50HZ		V	0 - 0
Rated control supply voltage Us at AC 60HZ		V	0 - 0
Rated control supply voltage Us at DC		V	0 - 0
Voltage type for actuating			DC
Rated operation power at AC-3, 230 V, 3-phase		kW	0
Rated operation power at AC-3, 400 V		kW	3
Rated power, 460 V, 60 Hz, 3-phase		kW	2.238
Rated power, 575 V, 60 Hz, 3-phase		kW	0
Rated operation current Ie		A	6.6
Rated operation current at AC-3, 400 V		A	6.6
Overload release current setting		A	0.3 - 6.6
Rated conditional short-circuit current, type 1, 480 Y/277 V		A	10,000
Rated conditional short-circuit current, type 1, 600 Y/347 V		A	0
Rated conditional short-circuit current, type 2, 230 V		A	0
Rated conditional short-circuit current, type 2, 400 V		A	0
Number of auxiliary contacts as normally open contact			0
Number of auxiliary contacts as normally closed contact			0
Ambient temperature, upper operating limit		°C	55
Temperature compensated overload protection			Yes
Release class			CLASS 10 A

Type of electrical connection of main circuit		Plug-in connection
Type of electrical connection for auxiliary- and control current circuit		Plug-in connection
Rail mounting possible		No
With transformer		No
Number of command positions		2
Suitable for emergency stop		No
Coordination class according to IEC 60947-4-3		Class 1
Number of indicator lights		0
External reset possible		Yes
With fuse		No
Degree of protection (IP)		IP65
Degree of protection (NEMA)		12
Supporting protocol for TCP/IP		No
Supporting protocol for PROFIBUS		No
Supporting protocol for CAN		No
Supporting protocol for INTERBUS		No
Supporting protocol for ASI		Yes
Supporting protocol for Modbus		No
Supporting protocol for Data-Highway		No
Supporting protocol for DeviceNet		No
Supporting protocol for SUCONET		No
Supporting protocol for LON		No
Supporting protocol for PROFINET IO		No
Supporting protocol for PROFINET CBA		No
Supporting protocol for SERCOS		No
Supporting protocol for Foundation Fieldbus		No
Supporting protocol for EtherNet/IP		No
Supporting protocol for AS-Interface Safety at Work		No
Supporting protocol for DeviceNet Safety		No
Supporting protocol for INTERBUS-Safety		No
Supporting protocol for PROFIsafe		No
Supporting protocol for SafetyBUS p		No
Supporting protocol for other bus systems		No
Width	mm	220
Height	mm	270
Depth	mm	120