Reversing starter, 6.6 A, Sensor input 2, 230/277 V AC, AS-Interface $^\circledR$, S-7.4 for 31 modules, HAN Q5



Part no. RAM05-W202A31-5120S1 198531

Product name	Eaton Moeller® series Rapid Link Reversing starter
Part no.	RAM05-W202A31-5120S1
EAN	4015081964062
Product Length/Depth	120 millimetre
Product height	270 millimetre
Product width	220 millimetre
Product weight	1.63 kilogram
Certifications	CE RoHS CCC IEC/EN 60947-4-2 UL approval UL 60947-4-2
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, thr phase asynchronous motors with 1500 rpm at 50 Hz or 1800 min at 60 Hz
Features	Parameterization: Fieldbus Parameterization: Keypad Parameterization: drivesConnect Diagnostics and reset on device and via AS-Interface Parameterization: drivesConnect mobile (App)
Fitted with:	Two sensor inputs through M12 sockets (max. 150 mA) for quick stop and interlocked manual operation Electronic motor protection Key switch position HAND Short-circuit release Thermistor monitoring PTC Key switch position AUTO Key switch position OFF/RESET Thermo-click
Functions	External reset possible For actuation of motors with mechanical brake 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
Our dead release comment antique unique	0.3 A
Overload release current setting - min	
Overload release current setting - min	6.6 A
·	6.6 A III
Overload release current setting - max	
Overload release current setting - max Overvoltage category	III
Overload release current setting - max Overvoltage category Product category	III Motor starter ASI
Overload release current setting - max Overvoltage category Product category Protocol	III Motor starter ASI AS-Interface profile cable: S-7.4 for 31 modules
Overload release current setting - max Overvoltage category Product category Protocol Rated impulse withstand voltage (Uimp)	Motor starter ASI AS-Interface profile cable: S-7.4 for 31 modules 4000 V Center-point earthed star network (TN-S network) Phase-earthed AC supply systems are not permitted.

Section resistance	Mounting position	Vertical
Resistance 10 - 150 fc. Continuous requesters Resistance 10 - 150 fc. Continuous requesters and Resistance 20 fc. A forgitude 15 mm. Annual requesters on accelerational requesters on accelerational Resistance 20 fc. A forgitude 15 mm. Annual requesters on accelerational Resistance 20 fc. A forgitude 21 mm. Annual requesters on acceleration per 100 m. Max. 2000 m. Max	Shock resistance	15 g, Mechanical, According to IEC/EN 60068-2-27, 11 ms, Half-sinusoidal shock ms, 1000 shocks per shaft
Max 100 m Max	Vibration	Resistance: 10 - 150 Hz, Oscillation frequency Resistance: 57 Hz, Amplitude transition frequency on acceleration
Ambient coprating temperature - max Ambient storage temperature - max Ambient storage temperature - max Climatic promige	Altitude	Max. 1000 m
Ambient storage temperature - min Ambient storage temperature - max C	Ambient operating temperature - min	-10 °C
Ambient starrage temperature - max 70 °C Climatic proofing 45 %, no condensation control	Ambient operating temperature - max	55 °C
Climent limitation	Ambient storage temperature - min	-40 °C
	Ambient storage temperature - max	70 °C
Aljustativity Aljustativit	Climatic proofing	
Mains switch-on frequency Maximum of one time every 80 seconds Meines switch-on frequency 390 - 489 V - 15 % 41 0%, at 58(80 Hz) Ort-dulsy 20 - 35 ms Output frequency 5060 Hz Overload cycle Ac-55a Rated frequency- max 31 Hz Rated operational current (le) 6.5 A Rated operational current (le) at 150% overload 6.5 A Rated operational current (le) at AC-3.380 V, 400 V, 415 V 6.5 A Rated operational power at 380000 V, 50 Hz - max 6.5 A Rated operational power at 40-3.220/230 V, 50 Hz 3 kW Rated operational power at 4-5.3 380/400 V, 50 Hz - min 0.93 kW Rated operational power at 4-6.3 380/400 V, 50 Hz 3 kW Rated operational power at 4-6.3 380/400 V, 50 Hz 3 kW Rated operational power at 4-6.3 380/400 V, 50 Hz 3 kW Rated operational power at 4-6.3 380/400 V, 50 Hz 3 kW Rated operational power at 4-6.0 480 V, 60 Hz, 3 phase 480 V AC, 3 phase Supply frequency 2 8.6 k [max 5 A for 120 ms], Actuator for external motor brake Braking ourset 2 9.2 k [max 5 A for 120 ms], Actuator for external motor brake Braking ou	Current limitation	· · ·
Mains voltage tolerance 380 - 480 Vi - 15 %/ - 10 %, at 50/00 Hz)	Input current	6.6 A (at 150 % Overload)
DFI-delay 20-35 ms	Mains switch-on frequency	
Durbut frequency 20 - 35 ms	Mains voltage tolerance	380 - 480 V (-15 %/+10 %, at 50/60 Hz)
Output frequency 50/80 Hz Overload cycle AC-53a Rated frequency - max 63 Hz Rated frequency - min 71 Hz Rated operational current (le) 6.5 A Rated operational current (le) at 150% overload 6.5 A Rated operational current (le) at AC-3, 380 V, 400 V, 415 V 6.6 A Rated operational power at 380/400 V, 50 Hz - max 3kW Rated operational power at AC-3, 220/230 V, 50 Hz 0.9 kW Rated operational power at AC-3, 220/230 V, 50 Hz 3kW Rated operational power at AC-3, 380/400 V, 50 Hz 3kW Rated operational power at AC-3, 220/230 V, 50 Hz 3kW Rated operational power at AC-3, 380/400 V, 50 Hz 3kW Rated operational voltage 200 Kg	,	
Overload cycle AC-33a Rated frequency - max 63 Hz Rated operational current (le) 65 A Rated operational current (le) at 150% overload 65 A Rated operational current (le) at 150% overload 65 A Rated operational power at 280,400 V, 50 Hz - max 3 kW Rated operational power at 380,400 V, 50 Hz - min 09 kW Rated operational power at AC-3, 2302,300 V, 50 Hz 0 kW Rated operational power at AC-3, 2303,000 V, 50 Hz - min 0 kW Rated operational power at AC-3, 2303,000 V, 50 Hz 3 kW Rated operational power at AC-3, 2303,000 V, 50 Hz 3 kW Rated operational voltage 5060 Hz, fl.N, Main circuit Rated operational voltage 5060 Hz, fl.N, Main circuit Assigned motor power at 460,480 V, 60 Hz, 3-phase 3 HP Braking current 5 0.6 A (max. 6 A for 120 ms), Actuator for external motor brake Braking voltage 20.6 A (max. 6 A for 120 ms), Actuator for external motor brake Braking voltage 3 kW Rated conditional short-circuit current (lq), type 2, 380 V, 400 V, 415 V 0 A Rated control supply voltage (Us) at AC, 50 Hz - min 0 V Rat		
Rated frequency - max Rated perational current (le)		
Rated frequency - min 47 Hz Rated operational current (le) at 150% overload 5.6 A Rated operational current (le) at 150% overload 6.6 A Rated operational current (le) 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 0.95 kW Rated operational power at AC-3, 280 V, 400 V, 50 Hz 0 kW Rated operational power at AC-3, 380, 400 V, 50 Hz 3 kW Rated operational power at AC-3, 380, 400 V, 50 Hz 3 kW Rated operational power at AC-3, 380, 400 V, 50 Hz 3 kW Rated operational power at AC-3, 380, 400 V, 50 Hz 3 kW Rated operational power at AC-3, 380, 400 V, 50 Hz 3 kW Rated operational power at AC-3, 380, 400 V, 50 Hz 3 kW Rated operational power at AC-3, 380, 400 V, 50 Hz 3 kW Rated operational power at AC-3, 380, 400 V, 50 Hz 3 kW Rated operational power at AC-3, 380, 400 V, 60 Hz, 3-phase 3 kW Supply frequency 50.6 A (max. 6 A for 120 ms), Actuator for external motor brake Braking current 50.5 A (max. 6 A for 120 ms), Actuator for external motor brake Braking current		
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Rated operational power at AC-3, 380/400 V, 50 Hz Rated operational voltage Supply frequency Supply frequency Solo Hz, LLN, Main circuit Assigned motor power at 460/480 V, 60 Hz, 3-phase 3 HP Solo A (max. 6 A for 120 ms), Actuator for external motor brake Braking current Solo A (max. 6 A for 120 ms), Actuator for external motor brake Braking voltage Solo A (max. 6 A for 120 ms), Actuator for external motor brake 10 kA Rated conditional short-circuit current (Iq) Rated conditional short-circuit current (Iq), type 2, 380 V, 400 V, 415 V 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 Rated control supply voltage (Us) at AC, 50 Hz - max OV Rated control supply voltage (Us) at AC, 60 Hz - min OV Rated control supply voltage (Us) at AC, 50 Hz - max OV Rated control supply voltage (Us) at AC, 50 Hz - max OV Rated control supply voltage (Us) at AC, 50 Hz - max OV Rated control supply voltage (Us) at AC, 50 Hz - max OV Rated control supply voltage (Us) at DC - min OV Rated control supply voltage (Us) at DC - min OV Rated control supply voltage (Us) at DC - min AC VOLTE (Us) at DC - min OV Rated control supply voltage (Us) at DC - min AC VOLTE (Us) at DC - min OV Rated control supply voltage (Us) at DC - min AC VOLTE (Us) at DC - min AC VOLTE (Us) at DC - min AC VOLTE (Us) at DC - min AC VOLTE (Us)		0.09 kW
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Assigned motor power at 460/480 V, 60 Hz, 3-phase Braking current Braking voltage Braking voltage Braked conditional short-circuit current (Iq) Rated conditional short-circuit current (Iq), type 2, 380 V, 400 V, 415 V Short-circuit protection (external output circuits) Rated control supply voltage (Us) at AC, 50 Hz - min Rated control supply voltage (Us) at AC, 50 Hz - min Rated control supply voltage (Us) at AC, 60 Hz - min Rated control supply voltage (Us) at AC, 60 Hz - min Rated control supply voltage (Us) at AC, 60 Hz - min Rated control supply voltage (Us) at AC, 60 Hz - min Rated control supply voltage (Us) at AC, 60 Hz - min Rated control supply voltage (Us) at AC, 60 Hz - min Rated control supply voltage (Us) at DC - min Rated control supply voltage (Us) at DC - min Rated control supply voltage (Us) at DC - max OV Rated control supply voltage (Us) at DC - max OV Rated control supply voltage (Us) at DC - max OV Rated control supply voltage (Us) at DC - max OV Rated control supply voltage (Us) at DC - max OV Rated control supply voltage (Us) at DC - max OV Rated control supply voltage (Us) at DC - max OV Rated control supply voltage (Us) at DC - max OV	Rated operational voltage	
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Braking voltage Rated conditional short-circuit current (Iq) Rated conditional short-circuit current (Iq), type 2, 380 V, 400 V, 415 V Short-circuit protection (external output circuits) Rated control supply voltage (Us) at AC, 50 Hz - min Rated control supply voltage (Us) at AC, 50 Hz - max Rated control supply voltage (Us) at AC, 60 Hz - max Rated control supply voltage (Us) at AC, 60 Hz - max Rated control supply voltage (Us) at AC, 60 Hz - max Rated control supply voltage (Us) at AC, 60 Hz - max Rated control supply voltage (Us) at AC, 60 Hz - max Rated control supply voltage (Us) at AC, 60 Hz - max Rated control supply voltage (Us) at DC - min Rated control supply voltage (Us) at DC - max Rated control supply voltage (Us) at DC - max Rated control voltage (Uc) Rated control voltage (Uc)	Desking august	COCA (may CA for 100 mg) Astrophysical materials and
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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 supply voltage (Us) at DC - max 2 V DC (-15 %/+20 %, external via AS-Interface® plug)	Rated control supply voltage (Us) at AC, 50 Hz - min	0 V
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Rated control voltage (Uc) 24 V DC (-15 %/+20 %, external via AS-Interface® plug)		

	nateu control voltage (UC)	
Connection Connections pluggable in power section	Connection	Connections pluggable in power section

Interfaces	Max. total power consumption from AS-Interface® power supply unit (30 V): 190 mA Specification: S-7.4 (AS-Interface®) Number of slave addresses: 31 (AS-Interface®)
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 le	А	6.6
Rated operation current at AC-3, 400 V	А	6.6
Overload release current setting	А	0.3 - 6.6
Rated conditional short-circuit current, type 1, 480 Y/277 V	А	65,000
Rated conditional short-circuit current, type 1, 600 Y/347 V	А	0
Rated conditional short-circuit current, type 2, 230 V	Α	0
Rated conditional short-circuit current, type 2, 400 V	Α	0
Number of auxiliary contacts as normally open contact		0

Number of audiliary contracts as normally closed contract 0 55 Temperature compensated overland protection "C 55 Reflesses class "C CLASS 10A Type of electrical connection of main circuit "Play in connection Type of electrical connection for availary- and control current circuit "Play in connection Rall mounting possible No No With transformer "Play in connection Number of command positions 2 Suitable for managency sup "D No Coordination class a secording to IEC 60847-43 "D No Number of Indicator lights "D No External rest possible "S No With fusa "B No Degree of protection IPP "B PR Degree of protection INTMAI "B No Supporting protected for PGNBUS No No Supporting protected for PGNBUS "S No Supporting protected for Data Highway No No Supporting protected for Data Highway No No			
Temperature compensated overload protection Vas Rebasse class CLASS 10 A Type of electrical connection of main circuit Pluy in connection Type of electrical connection for auxiliary- and control current circuit Pluy in connection Rall mounting possible No With transformer No No Coordination of the second positions Suitable for energency stop Uses 1 Coordination class according to EC 50047-4-3 Uses 1 With freas No Exturnal reset possible Yes With freas No Degree of protection (PEMA) 12 Degree of protection (PEMA) 12 Supporting protect for FCP/P No Supporting protect for FCP/P No Supporting protect for EC FAL No Supporting protect for MTRIBUS No Supporting protect for Mounts No Supporting protect for Extended No	Number of auxiliary contacts as normally closed contact		0
Release class CLASS 10 A Type of electrical connection of main circuit Plug in connection Type of electrical connection for auxiliany- and control current circuit Plug in connection With transformer No Number of command positions 2 Stablable for emerge-ey stop 0 Coordination class according to IEC 6987+43 0 Number of indicator lights 9 External reset possible 9 Visit have No Degree of protection (IP) 12 Degree of protection (IP) 12 Supporting protector for TCP/IP No Supporting protector for TCP/IP No Supporting protector for FCP/IP No Supporting protector for EXPL No Supporting protector for EXPL No Supporting protector for EXPL No Supporting protector for Data-Highway No Supporting protector for EXPL No <td>Ambient temperature, upper operating limit</td> <td>°C</td> <td>55</td>	Ambient temperature, upper operating limit	°C	55
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Height mm 270	Supporting protocol for other bus systems		No
	Width	mm	220
Depth mm 120	Height	mm	270
	Depth	mm	120