DATASHEET - RAM05-W212A32-412RS1

Reversing starter, 6.6 A, Sensor input 2, Actuator output 1, 230/277 V AC, AS-Interface®, S-7.A.E. for 62 modules, HAN Q4/2, with manual override switch



Part no.

RAM05-W212A32-412RS1 199115

Product name	Eaton Moeller® series Rapid Link Reversing starter
Part no.	RAM05-W212A32-412RS1
EAN	4015081971732
Product Length/Depth	120 millimetre
Product height	270 millimetre
Product width	220 millimetre
Product weight	1.81 kilogram
Certifications	IEC/EN 60947-4-2 RoHS CE UL approval CCC 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, three- phase asynchronous motors with 1500 rpm at 50 Hz or 1800 min at 60 Hz
Features	Parameterization: drivesConnect mobile (App) Parameterization: drivesConnect Diagnostics and reset on device and via AS-Interface Parameterization: Keypad Parameterization: Fieldbus
Fitted with:	Key switch position HAND Manual override switch 1 Actuator output Key switch position AUTO Thermo-click Electronic motor protection Key switch position OFF/RESET Thermistor monitoring PTC 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
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	
Product category	Motor starter
Protocol	AS-Interface profile cable: S-7.4 for 62 modules
Rated impulse withstand voltage (Uimp)	ASI 4000 V
System configuration type	Center-point earthed star network (TN-S network)
,	AC voltage Phase-earthed AC supply systems are not permitted.
Туре	Reversing starter

Waters tors: Construction Construction Construction Musting controls: See Section: Section: <td< th=""><th></th><th></th></td<>		
Skot sectases Skot	Voltage type	DC
Skot sectases Skot	Mounting position	Vertical
Wirden minile in object space of a scalar space of a s		
Alticity Altic	Shock resistance	
Advict do per laje character on International activity of the sector	Vibration	Resistance: 57 Hz, Amplitude transition frequency on acceleration Resistance: According to IEC/EN 60068-2-6
Anbest torge temperature - max Bit S °C Anbest torge temperature - max - a °C Banker torge temperature - max Bit S °C Bit and torge temperature - max S % or confensation Bit and torge temperature - max S % or confensation Diract provide temperature - max S % or confensation Diract provide temperature - max S % or confensation Diract provide temperature - max S % or confensation Diract provide temperature - max S % or confensation Mains ordse torbins S % or confensation Inter correr S % or confensation Mains ordse torbins S % Read orecordse ordse % % ordse % </td <td>Altitude</td> <td>Max. 1000 m</td>	Altitude	Max. 1000 m
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Antion storage interpretative max Pref Dimatic proofing SS %, no confinationation Direct intraction SS %, no confinationation Direct intraction SS %, no confinationation Mains works on frequency SS % no confinationation intractionation work intractionation work interpretationation work intractionation work interpretation intenterpretat	Ambient operating temperature - max	55 °C
District proteining Image: Protein State with IEEE 19178 Current limitation Adjustable, noting, nain creating of the state with IEEE 19178 Input current S S A (at 139 % Decision) Mains withings tolerance S S A (at 139 % Decision) Ord-day S S A (at 139 % Decision) Order stype S S A (at 139 % Decision) Order S S S S S S S A (at 139 % Decision) Raid operstation (at 140 A S 30 % VAN	Ambient storage temperature - min	
		70 °C
Input current 03 - 6.5. A (noto), man crecut Imput current 6.6. (a (130)% Nuersional) Maines works on frequency 300 - 400 V (-15 %/-10 %, st 5000 H/2) Dir-duky 03 - 5.5 m s On-duky 03 - 5.5 m s On-duky 03 - 5.5 m s On-duky 04 - 5.5 m s Nate frequency - max 04 - 5.5 m s Rated operational current (le) 04 - 5.5 m s Rated operational current (le) 04 - 5.5 m s Rated operational current (le) 04 - 5.5 m s Rated operational current (le) 04 - 0.5 m s Rated operational current (le) 04 - 0.5 m s Rated operational power at 304000 V.50 H - min 04 - 0.6 M N Rated operational power at 304000 V.50 H - min 04 - 0.6 M N Rated operational power at 304000 V.50 H - min 04 - 0.6 M N Rated operational power at 304000 V.50 H - min 04 - 0.6 M N Rated operational power at 304000 V.50 H - min 04 - 0.6 M N Rated operational power at 304000 V.50 H - min 04 - 0.6 M N Rated operational power at 30400 V.50 H - min 04 - 0.6 M N Rated operational power at 40-3.30100 V.50 H - min </td <td>Climatic proofing</td> <td></td>	Climatic proofing	
Input current 03 - 6.5. A (noto), man crecut Imput current 6.6. (a (130)% Nuersional) Maines works on frequency 300 - 400 V (-15 %/-10 %, st 5000 H/2) Dir-duky 03 - 5.5 m s On-duky 03 - 5.5 m s On-duky 03 - 5.5 m s On-duky 04 - 5.5 m s Nate frequency - max 04 - 5.5 m s Rated operational current (le) 04 - 5.5 m s Rated operational current (le) 04 - 5.5 m s Rated operational current (le) 04 - 5.5 m s Rated operational current (le) 04 - 0.5 m s Rated operational current (le) 04 - 0.5 m s Rated operational power at 304000 V.50 H - min 04 - 0.6 M N Rated operational power at 304000 V.50 H - min 04 - 0.6 M N Rated operational power at 304000 V.50 H - min 04 - 0.6 M N Rated operational power at 304000 V.50 H - min 04 - 0.6 M N Rated operational power at 304000 V.50 H - min 04 - 0.6 M N Rated operational power at 304000 V.50 H - min 04 - 0.6 M N Rated operational power at 30400 V.50 H - min 04 - 0.6 M N Rated operational power at 40-3.30100 V.50 H - min </td <td>Current limitation</td> <td>Adjustable, motor, main circuit</td>	Current limitation	Adjustable, motor, main circuit
Autors witch-on frequency Maximum of one time every 60 seconds Mains witch-on frequency 30 - 400 V (15 %/10 %, st 50(00 Hz) Dif-delay 20 - 35 ms Dir-delay 20 - 35 ms Bited foreational current (le) 140.03 x00.040 V,150 V 56 A Bited operational power at AC3, 200 V,400 V,50 Hz 30 W Bited operational power at AC3, 200 X00 V,50 Hz 30 W		
Mais vertage tolerance 30 - 400 V (-15 %/-10 %, at 5000 Hz) Oir-foliey	Input current	6.6 A (at 150 % Overload)
Off-delay 20 - 35 ms Dirphif requency 20 - 35 ms Dirphif requency 20 - 35 ms Dirphif requency 20 - 35 ms Rated requency - max 20 - 35 ms Rated requency - max 20 - 35 ms Rated requency - min 20 - 25 ms Rated operational current (Ie) ACS - 380 V, 400 V, 415 V 26 - 56 - 6 Rated operational current (Ie) ACS - 380 V, 400 V, 415 V 26 - 56 - 6 Rated operational power at 380 400 V, 50 Hz - max 20 - 60 - 000 WW Rated operational power at 380 400 V, 50 Hz - max 20 - 60 - 000 WW Rated operational power at 460 480 V, 50 Hz - min 20 - 60 - 000 WW Rated operational power at 460 480 V, 50 Hz - min 20 - 60 - 000 WW Rated operational power at 460 480 V, 50 Hz - min 20 - 60 - 000 WW Rated operational power at 460 480 V, 50 Hz - min 30 - 000 WK Rated operational power at 460 480 V, 50 Hz - min 20 - 000 Hz , 10, Main incluit Rated operational current (Ie) 20 - 000 Hz , 10, Main incluit Rated operational power at 460 480 V, 50 Hz - 3 - 380 V, 400 V, 415 V 30 - 000 Hz , 10, Main incluit Rated operational current (Ie) Company 30 - 000 Hz , 10, Main incluit Rated operational b	Mains switch-on frequency	Maximum of one time every 60 seconds
On-delay 2-3 m m Output frequency 5080 Hz Output frequency - max 5080 Hz Bated frequency - max 64 Hz Bated operational current (le) at DO3, 380 V, 40 V, 415 V 66 A Bated operational current (le) at AC3, 380 V, 40 V, 415 V 66 A Bated operational power at 38040 V, 50 Hz - max 60 KW Rated operational power at 38040 V, 50 Hz - max 0.00 KW Rated operational power at 380400 V, 50 Hz - max 0.00 KW Rated operational power at 38040 V, 50 Hz - max 0.00 KW Rated operational power at 38040 V, 50 Hz - max 0.00 KW Rated operational power at 460440 V, 50 Hz - max 0.00 KW Rated operational power at 460440 V, 50 Hz - passe 0.00 KW Supply frequency 200 ZYT VAC - 15 % / 10 %, Actuator for external motor brake Braked control als brot-circuit current (le), xpe 2, 300 V, 400 V, 415 V 5060 Hz, (LN, Main circuit Braked control als brot-circuit current (le), xpe 2, 300 V, 400 V, 415 V 5060 Hz, (LN, Main circuit Rated control als brot-circuit current (le), xpe 2, 300 V, 400 V, 415 V 5060 Hz, (LN,	Mains voltage tolerance	380 - 480 V (-15 %/+10 %, at 50/60 Hz)
Output frequency S060 Hz Output frequency AC-33a Bated frequency - max S12 G Bated frequency - max S12 G Bated frequency - min S12 G Bated operational current (le) at 150% overload S5A G Bated operational current (le) at 150% overload S5A G Bated operational current (le) at AC-3380 V, 400 V, 415 V S4A G Bated operational power at 380400 V, 50 Hz - max G0 80 WW Bated operational power at AS3, 20230 V, 50 Hz - max G0 80 WW Bated operational power at AS3, 20230 V, 50 Hz - max G0 80 WW Bated operational power at AS3, 20230 V, 50 Hz - max G0 80 WW Bated operational power at AS3, 20230 V, 50 Hz - max G0 80 WW Bated operational power at AS3, 20230 V, 50 Hz - max G0 80 WW Bated operational power at AS3, 20230 V, 50 Hz - max G0 80 WW Bated operational power at AS0, 400 V, 50 Hz - max G0 80 WW Bated operational power at AS0, 400 V, 50 Hz - max G0 80 WW Bated operational subry outage (Us) at AC, 50 Hz - S00 V, 400 V, 415 V G0 A Bated operational subry outage (Us) at AC, 50 Hz - max G0 A Bated control supply voltage (Us) at AC, 50 Hz - max G0 V <	Off-delay	20 - 35 ms
Derival cycle AC-S3a Bated frequency - max 63 Hz Bated frequency - min 65 Hz Bated operational current (le) 65 A Bated operational current (le) 64 A Bated operational current (le) 65 A Bated operational power at 300400 V, 50 Hz - max 64 A Bated operational power at AC-3, 2300 V, 50 Hz - min 09 WW Bated operational power at AC-3, 2300400 V, 50 Hz - min 64 OV AC, 3-phase Bated operational power at AC-3, 2300400 V, 50 Hz - min 640 VAC, 3-phase Bated operational power at AC-3, 2300400 V, 50 Hz 640 VAC, 3-phase Supply frequency 3WW Bated operational power at AC-3, 2300400 V, 50 Hz 640 VAC, 3-phase Supply frequency 3WW Bated operational power at AC-3, 2300400 V, 50 Hz 70 VAC, 3-phase Supply frequency 3WW Bated operational power at AB0/AB0, K0 Hz, 3-phase 3WW Braking current 70 VAC, 3-phase Braking current 10 VA Brake condit	On-delay	20 - 35 ms
Rated frequency - max 6 5 H2 Rated operational current (le) 6 A A Rated operational current (le) at 10% overfead 6 A A Rated operational current (le) at 10% overfead 6 A A Rated operational current (le) at 10% overfead 6 A A Rated operational current (le) at 10% overfead 6 A A Rated operational power at 380400 V, 04 b V 6 A A Rated operational power at 380400 V, 50 Hz - max 6 A A Rated operational power at 380400 V, 50 Hz - max 6 A A Rated operational power at 460/480 V, 50 Hz - max 6 A A Supply frequency 6 A A Assigned metor power at 460/480 V, 60 Hz, 3-phase 600 Hz, 1LV, Main circuit Rated conditional short-circuit current (le) 6 A A Rated conditional short-circuit current (le) 7 A Rated control supply voltage (Us) at AC, 50 Hz - max 7 A Rated control supply voltage (Us) at AC, 50 Hz - max 7 A Rated control supply voltage (Us) at AC, 60 Hz - max 7 A Rated control supply vol	Output frequency	50/60 Hz
Rated frequery min 7H2 Rated operational current (le) at 50% overload 66 A Rated operational current (le) at 50% overload 66 A Rated operational current (le) at AC3, 380 V, 400 V, 415 V 66 A Rated operational power at 380/400 V, 50 Hz - max 60 OB WW Rated operational power at 380/400 V, 50 Hz - max 0.99 WW Rated operational power at AC3, 380 V, 400 V, 415 V 0.99 WW Rated operational power at AC3, 380 V, 400 V, 50 Hz 0.99 WW Rated operational power at AC3, 380 V, 400 V, 50 Hz 0.99 WW Rated operational power at AC3, 380 V, 400 V, 50 Hz 0.99 WW Rated operational power at AGN, 380 V, 400 V, 50 Hz 0.99 WW Rated operational power at AGN, 380 V, 400 V, 50 Hz 0.90 WW Rated operational power at AGN, 400 V, 50 Hz 5000 Hz, tLN, Main circuit Supply frequency 5000 Hz, tLN, Main circuit Maxing outrent 5000 Hz, tLN, Main circuit Braking outage 5000 Hz, tLN, Main circuit Rated control supply voltage (Us) at AC, 50 Hz - min 10 LA Rated control supply voltage (Us) at AC, 50 Hz - min 0 V Rated control supply voltage (Us) at AC, 50 Hz - min 0 V Rated control supply voltage (Us) at AC, 60	Overload cycle	AC-53a
Rated operational current (le) at 150% overload 6.6 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 6.6 A Rated operational power at 380 400 V, 50 Hz - min 0.09 kW Rated operational power at C3, 220730 V, 50 Hz 0.09 kW Rated operational power at C3, 320 400 V, 50 Hz 0.09 kW Rated operational power at C3, 320 400 V, 50 Hz 0.09 kW Rated operational power at C3, 320 400 V, 50 Hz 0.00 kW Rated operational power at C3, 320 400 V, 50 Hz 0.00 kW Rated operational power at C3, 320 400 V, 50 Hz 0.00 kW Rated operational power at C3, 320 400 V, 50 Hz 0.00 kLz, 3: phase Supply frequency 0.00 kLz, 1.1N, Main circuit Assigned motor power at 460/480 V, 60 Hz, 3: phase 0.00 kL Rating current 0.00 kL Braking voltage 0.00 kL Rated control supply voltage (Us) at AC, 50 Hz - min 0.0 A Rated control supply voltage (Us) at AC, 50 Hz - min 0.0 V Rated control supply voltage (Us) at AC, 50 Hz - min 0.0 V Rated control supply voltage (Us) at AC, 50 Hz - min <	Rated frequency - max	63 Hz
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 0.99 WV Rated operational power at AC-3, 220/230 V, 50 Hz 0.99 WV Rated operational power at AC-3, 380 400 V, 50 Hz 0.99 WV Rated operational power at AC-3, 380 400 V, 50 Hz 0.99 WV Rated operational power at AC-3, 380 400 V, 50 Hz 0.90 WV Rated operational power at AC-3, 380 400 V, 50 Hz 0.90 WV Supply frequency 30/60 Hz, fLN, Main circuit Assigned motor power at 460/480 V, 60 Hz, 3-phase 30/60 Hz, fLN, Main circuit Braking current 20/80 Hz, fLN, Main circuit for external motor brake Braking current 20/80 Hz, fLN, Main circuit for external motor brake Rated control supply voltage (Us) at AC, 50 Hz - min 0.80 MZ Rated control supply voltage (Us) at AC, 50 Hz - min 0.90 MZ Rated control supply voltage (Us) at AC, 50 Hz - min 0.90 MZ Rated control supply voltage (Us) at AC, 50 Hz - min 0.90 MZ Rated control supply voltage (Us) at AC, 50 Hz - min 0.90 MZ Rated control supply voltage (Us) at AC, 50 Hz - min 0.90 MZ Rated control supply voltage (Us) at A	Rated frequency - min	47 Hz
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 0.09 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 100 KW Rated operational power at AC:3, 230/2400 V, 50 Hz 840 VAC, 3-phase Supply frequency 480 VAC, 3-phase Supply frequency 50/60 Hz, 3-phase Assigned motor power at 460/480 V, 60 Hz, 3-phase 50/60 Hz, 4.1 M, Main circuit Braing current 6.6 A (max 6 A for 120 ms), Actuator for external motor brake Braing current (le) 10 kA Rated conditional short-circuit current (lq) 10 kA Rated conditional short-circuit current (lq) 10 kA Rated control supply voltage (Us) at AC, 50 Hz - min 0 V Rated control supply voltage (Us) at AC, 50 Hz - min 0 V Rated control supply voltage (Us) at AC, 60 Hz - min 0 V Rated control supply voltage (Us) at AC, 60 Hz - min 0 V Rated control supply voltage (Us) at AC, 60 Hz - min 0 V Rated control supply voltage (Us) at AC, 60 Hz - min 0 V Rated control supply voltage (Us) at AC, 60 Hz - min 0 V Rated control supply vol	Rated operational current (Ie)	6.6 A
Rated operational power at 380/400 V, 50 Hz - max 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 0.09 kW Rated operational power at AC-3, 220/230 V, 50 Hz 0.00 kW Rated operational power at AC-3, 230/2400 V, 50 Hz 800 V AC, 3-phase Supply frequency 6000 VAC, 3-phase Supply frequency 50/60 Hz, 1kN, Main circuit Assigned motor power at 460/480 V, 60 Hz, 3-phase 50/60 Hz, 1kN, Main circuit Braking current 50.6 A (max, 6 A for 120 ms), Actuator for external motor brake Braking voltage 50.6 A (max, 6 A for 120 ms), Actuator for external motor brake Rated conditional short-circuit current (lq) No Rated conditional short-circuit current (lq) 0.4 Rated control supply voltage (Us) at AC, 50 Hz - min 0.4 Rated control supply voltage (Us) at AC, 50 Hz - min 0.4 Rated control supply voltage (Us) at AC, 60 Hz - min 0.4 Rated control supply voltage (Us) at AC, 60 Hz - min 0.4 Rated control supply voltage (Us) at AC, 60 Hz - min 0.4 Rated control supply voltage (Us) at AC, 60 Hz - min 0.4 Rated control supply voltage (Us) at AC, 60 Hz - min 0.4	Rated operational current (le) at 150% overload	6.6 A
Rated operational power at 380/400 V, 50 Hz - min 0.98 kW Rated operational power at AC-3, 220/230 V, 50 Hz 6.09 kW Rated operational power at AC-3, 230/400 V, 50 Hz 8.00 V AC, 3-phase Rated operational voltage 3.00 V AC, 3-phase Supply frequency 5.060 Hz, 1LN, Main circuit Assigned motor power at 460/480 V, 60 Hz, 3-phase 3.00 V AC, 3-phase Braking current 3.060 Hz, 1LN, Main circuit Braking current 200 Z77 V AC -15 % / +10 %, Actuator for external motor brake Braking current 200 Z77 V AC -15 % / +10 %, Actuator for external motor brake Braking current (lq), 0.4 Rated control supply voltage (Us) at AC, 50 Hz - min 0.4 Rated control supply voltage (Us) at AC, 50 Hz - min 0.0 V Rated control supply voltage (Us) at AC, 60 Hz - min 0.0 V Rated control supply voltage (Us) at AC, 60 Hz - min 0.0 V Rated control supply voltage (Us) at AC, 60 Hz - min 0.0 V Rated control supply voltage (Us) at AC, 60 Hz - min 0.0 V Rated control supply voltage (Us) at AC, 60 Hz - min 0.0 V Rated control supply voltage (Us) at AC, 60 Hz - min 0.0 V Rated control supply voltage (Us) at AC, 60 Hz - min 0.0 V	Rated operational current (Ie) at AC-3, 380 V, 400 V, 415 V	6.6 A
Rated operational power at AC-3, 220/230 V, 50 Hz IVW Rated operational power at AC-3, 380/400 V, 50 Hz IVW Rated operational voltage 3kW Supply frequency Sob6 Hz, 51, Main circuit Supply frequency Nove AC, 3-phase Assigned motor power at 460/480 V, 60 Hz, 3-phase IV Braking current Sob6 Hz, 1k, Main circuit Braking voltage Sob6 Ac (max. 6 A for 120 ms), Actuator for external motor brake Braking voltage Sob6 Ac (max. 6 A for 120 ms), Actuator for external motor brake Braking voltage Sob6 Ac (max. 6 A for 120 ms), Actuator for external motor brake Braking voltage Sob6 Ac (max. 6 A for 120 ms), Actuator for external motor brake Braking voltage Sob6 Ac (max. 6 A for 120 ms), Actuator for external motor brake Braking voltage Sob6 Ac (max. 6 A for 120 ms), Actuator for external motor brake Braking voltage Sob6 Ac (max. 6 A for 120 ms), Actuator for external motor brake Braking voltage Sob6 Ac (max. 6 A for 120 ms), Actuator for external motor brake Braked conditional short-circuit current (lq), type 2, 380 V, 400 V, 415 V Sob6 Ac (max. 6 A for 120 ms), Actuator for external motor brake Rated control supply voltage (Us) at AC, 50 Hz - min OV OV Rated cont	Rated operational power at 380/400 V, 50 Hz - max	3 kW
Rated operational power at AC-3, 380/400 V, 50 Hz 3 KW Rated operational voltage 3 KW Rated operational voltage 480 V AC, 3-phase 400 V AC, 3-phase 400 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 Braking current 50/60 Hz, fLN, Main circuit for external motor brake Braking current 200/277 V AC -15 % / +10 %, Actuator for external motor brake Braking current (lq) 700 Ka Rated conditional short-circuit current (lq), type 2, 380 V, 400 V, 415 V 60 Ka Short-circuit protection (external output circuits) 10 kA Rated control supply voltage (Us) at AC, 50 Hz - min 0V Rated control supply voltage (Us) at AC, 60 Hz - min 0V Rated control supply voltage (Us) at AC, 60 Hz - min 0V Rated control supply voltage (Us) at AC, 60 Hz - min 0V Rated control supply voltage (Us) at AC, 60 Hz - min 0V Rated control supply voltage (Us) at AC, 60 Hz - min 0V Rated control supply voltage (Us) at AC, 60 Hz - min 0V Rated control supply voltage (Us) at AC, 60 Hz - min 0V Rated control supply voltage (Us) at AC, 60 Hz - min 0V R	Rated operational power at 380/400 V, 50 Hz - min	0.09 kW
Rated operational voltage 480 V AC, 3-phase Supply frequency 50/60 Hz, fLN, Main circuit Assigned motor power at 460/480 V, 60 Hz, 3-phase 50/60 Hz, fLN, Main circuit Braking current 20.6 A (max. 6 A for 120 ms), Actuator for external motor brake Braking voltage 200/277 V AC -15 % / +10 %, Actuator for external motor brake Rated conditional short-circuit current (lq) 10 kA Rated conditional short-circuit current (lq), type 2, 380 V, 400 V, 415 V 0A Short-circuit protection (external output circuits) 10 kA Rated control supply voltage (Us) at AC, 50 Hz - min 0V Rated control supply voltage (Us) at AC, 60 Hz - min 0V Rated control supply voltage (Us) at AC, 60 Hz - min 0V Rated control supply voltage (Us) at AC, 60 Hz - min 0V Rated control supply voltage (Us) at AC, 60 Hz - min 0V Rated control supply voltage (Us) at AC, 60 Hz - max 0V Rated control supply voltage (Us) at AC, 60 Hz - max 0V Rated control supply voltage (Us) at AC, 60 Hz - max 0V Rated control supply voltage (Us) at DC - max 0V Rated control supply voltage (Us) at DC - max 0V Rated control supply voltage (Us) at DC - max 0V <td>Rated operational power at AC-3, 220/230 V, 50 Hz</td> <td>0 kW</td>	Rated operational power at AC-3, 220/230 V, 50 Hz	0 kW
Supply frequency 50/60 Hz, fLN, Main circuit Assigned motor power at 460/480 V, 60 Hz, 3-phase 50/60 Hz, fLN, Main circuit Braking current 50.6 A (max. 6 A for 120 ms), Actuator for external motor brake Braking voltage 200/277 V AC -15 % / +10 %, Actuator for external motor brake Rated conditional short-circuit current (Iq) 10 kA Rated conditional short-circuit protection (external output circuits) Ype 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 - min 0 V Rated control supply voltage (Us) at AC, 50 Hz - min 0 V Rated control supply voltage (Us) at AC, 50 Hz - min 0 V Rated control supply voltage (Us) at AC, 50 Hz - min 0 V Rated control supply voltage (Us) at AC, 50 Hz - min 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 AC, 60 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 - max 0 V Rated control supply voltage (Us) at DC - max 0 V	Rated operational power at AC-3, 380/400 V, 50 Hz	3 kW
Assigned motor power at 460/480 V, 60 Hz, 3-phase Faking current Braking current Braking voltage Braking volt	Rated operational voltage	
Braking current < 6.6 A (max. 6 A for 120 ms), Actuator for external motor brake	Supply frequency	50/60 Hz, fLN, Main circuit
Braking voltage 20/277 V AC -15 % / +10 %, Actuator for external motor brake Rated conditional short-circuit current (lq) 10 kA Rated conditional short-circuit current (lq), type 2, 380 V, 400 V, 415 V 10 kA Short-circuit protection (external output circuits) 0A Rated control supply voltage (Us) at AC, 50 Hz - min 10 kA Rated control supply voltage (Us) at AC, 50 Hz - min V Rated control supply voltage (Us) at AC, 60 Hz - min V Rated control supply voltage (Us) at AC, 60 Hz - min V Rated control supply voltage (Us) at AC, 60 Hz - min V Rated control supply voltage (Us) at AC, 60 Hz - min V Rated control supply voltage (Us) at AC, 60 Hz - min V Rated control supply voltage (Us) at AC, 60 Hz - min V Rated control supply voltage (Us) at AC, 60 Hz - min V Rated control supply voltage (Us) at AC, 60 Hz - max V Rated control supply voltage (Us) at DC - max V Rated control supply voltage (Us) at DC - max V Rated control voltage (Uc) V	Assigned motor power at 460/480 V, 60 Hz, 3-phase	3 HP
Braking voltage 20/277 V AC -15 % / +10 %, Actuator for external motor brake Rated conditional short-circuit current (lq) 10 kA Rated conditional short-circuit current (lq), type 2, 380 V, 400 V, 415 V 10 kA Short-circuit protection (external output circuits) 0A Rated control supply voltage (Us) at AC, 50 Hz - min 10 kA Rated control supply voltage (Us) at AC, 50 Hz - min V Rated control supply voltage (Us) at AC, 60 Hz - min V Rated control supply voltage (Us) at AC, 60 Hz - min V Rated control supply voltage (Us) at AC, 60 Hz - min V Rated control supply voltage (Us) at AC, 60 Hz - min V Rated control supply voltage (Us) at AC, 60 Hz - min V Rated control supply voltage (Us) at AC, 60 Hz - min V Rated control supply voltage (Us) at AC, 60 Hz - min V Rated control supply voltage (Us) at AC, 60 Hz - max V Rated control supply voltage (Us) at DC - max V Rated control supply voltage (Us) at DC - max V Rated control voltage (Uc) V	Braking current	\leq 0.6 A (max. 6 A for 120 ms). Actuator for external motor brake
Rated conditional short-circuit current (Iq) ID kA Rated conditional short-circuit current (Iq), type 2, 380 V, 400 V, 415 V ID kA 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 ID kA Rated control supply voltage (Us) at AC, 60 Hz - min ID kA Rated control supply voltage (Us) at AC, 60 Hz - min ID kA Rated control supply voltage (Us) at AC, 60 Hz - min ID kA Rated control supply voltage (Us) at AC, 60 Hz - max ID kA Rated control supply voltage (Us) at AC, 60 Hz - max ID kA Rated control supply voltage (Us) at AC, 60 Hz - max ID kA Rated control supply voltage (Us) at AC, 60 Hz - max ID kA Rated control supply voltage (Us) at AC, 60 Hz - max ID kA Rated control supply voltage (Us) at DC - min ID kA Rated control supply voltage (Us) at DC - max ID kA Rated control supply voltage (Uc) ID kA Rated control voltage (Uc) ID kA	-	
Rated conditional short-circuit current (Ig), 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 - max 0 V Rated control supply voltage (Us) at AC, 60 Hz - max 0 V Rated control supply voltage (Us) at AC, 60 Hz - max 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 - min 0 V Rated control supply voltage (Us) at DC - max 0 V Rated control supply voltage (Us) at DC - max 0 V Rated control supply voltage (Uc) 0 V		
Rated conditional short-circuit current (Ig), 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 - max 0 V Rated control supply voltage (Us) at AC, 60 Hz - max 0 V Rated control supply voltage (Us) at AC, 60 Hz - max 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 - min 0 V Rated control supply voltage (Us) at DC - max 0 V Rated control supply voltage (Us) at DC - max 0 V Rated control supply voltage (Uc) 0 V	Rated conditional short-circuit current (Ig)	10 kA
Short-circuit protection (external output circuits) Fated 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 AC, 60 Hz - max Rated control supply voltage (Us) at DC - max Rated control supply voltage (Us) at DC - max Rated control supply voltage (Us) at DC - max Rated control supply voltage (Uc)		
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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 0 V Rated control supply voltage (Uc) 0 V		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 0 V Rated control supply voltage (Us) at DC - max 0 V Rated control voltage (Uc) 230/277 V AC (external brake 50/60 Hz)		
Rated control supply voltage (Us) at DC - min V Rated control supply voltage (Us) at DC - max V Rated control voltage (Uc) V		0 V
Rated control supply voltage (Us) at DC - max 0 V Rated control voltage (Uc) 230/277 V AC (external brake 50/60 Hz)		0 V
Rated control voltage (Uc) 230/277 V AC (external brake 50/60 Hz)		0 V
		230/277 V AC (external brake 50/60 Hz)
		24 V DC (-15 %/+20 %, external via AS-Interface® plug)

Connection	Connections pluggable in power section
Interfaces	Max. total power consumption from AS-Interface® power supply unit (30 V): 190 mA Specification: S-7.A.E. (AS-Interface®) Number of slave addresses: 62 (AS-Interface®)
Number of auxiliary contacts (normally closed contacts)	0
Number of auxiliary contacts (normally open contacts)	1
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])

	Reversing starter
	Yes
V	0 - 0
V	0 - 0
V	0 - 0
	DC
kW	0
kW	3
kW	2.238
kW	0
А	6.6
А	6.6
А	0.3 - 6.6
А	10,000
А	0
А	0
	V V kW kW kW A A A A A A A A

Rated conditional short-circuit current, type 2, 400 V	A	0
Number of auxiliary contacts as normally open contact		1
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
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