DATASHEET - DE11-122D7FN-N20N



Speed starters, single-phase power supply connection, three-phase motor connection at 230 V, 2, 7 A and 0, 55 kW / 0, 5 HP, with integrated EMC filter

Part no. Catalog No. Eaton Catalog No.

DE11-122D7FN-N20N 180652 D. DE11-122D7FN-N20N

Technical data General

Uellelal			
Standards			Specification for general requirements: IEC/EN 61800-2 EMC requirements: IEC/EN 61800-3 Safety requirements: IEC/EN 61800-5-1
Certifications			CE, UL, cUL, RCM
Production quality			RoHS, ISO 9001
Climatic proofing	ρ _w	%	< 95%, average relative humidity (RH), non-condensing, non-corrosive
Ambient temperature			
operation (150 % overload)	9	°C	-10 - +60
Storage	9	°C	-40 - +70
Radio interference level			
Radio interference class (EMC)			C1 (for conducted emissions only), C2, C3, depending on the motor cable length, the connected load, and ambient conditions. External radio interference suppression filters (optional) may be necessary.
Environment (EMC)			1st and 2nd environments as per EN 61800-3
maximum motor cable length	I	m	C1 \leq 5 m C2 \leq 10 m C3 \leq 25 m
Mechanical shock resistance		g	15 (11 m/s, EN 60068-2-27)
Vibration			EN 61800-5-1
Altitude		m	0 - 1000 m above sea level Above 1000 m: 1% derating for every 100 m max. 2000 m
Degree of Protection			IP20/NEMA 0
Protection against direct contact			BGV A3 (VBG4, finger- and back-of-hand proof)
Main circuit			
Supply			
Rated operational voltage	U _e		230 V AC, 1-phase 240 V AC, single-phase
Mains voltage (50/60Hz)	U _{LN}	V	200 (-10%) - 240 (+10%)
Input current (150% overload)	I _{LN}	А	7.3
Supply frequency	f _{LN}	Hz	50/60
Frequency range	f _{LN}	Hz	45 - 66
Mains switch-on frequency			Maximum of one time every 30 seconds
Power section			
Overload current (150% overload)	IL.	А	4.05
max. starting current (High Overload)	I _H	%	200
Note about max. starting current			for 1.875 seconds every 600 seconds
Output voltage with V_{e}	U ₂		230 V AC, 3-phase 240 V AC, 3-phase
Output Frequency	f ₂	Hz	0 - 50/60 (max. 300)
Switching frequency	f _{PWM}	kHz	16 adjustable 4 - 32 (audible)
Operation Mode			U/f control Speed control with slip compensation
Frequency resolution (setpoint value)	Δf	Hz	0.03



Rated operational current			
At 150% overload	۱ _e	А	2.7
Note			Rated operational current at an operating frequency of 16 kHz and an ambient air temperature of +50 $^\circ\mathrm{C}$
Maximum leakage current to ground (PE) without motor	I _{PE}	mA	< 3.5 AC, < 10 DC
Fitted with			Radio interference suppression filter
Frame size			FS1
Motor feeder			
Note			for normal internally and externally ventilated 4 pole, three-phase asynchronous motors with 1500 rpm ⁻¹ at 50 Hz or 1800 min ⁻¹ at 60 Hz
Note			Overload cycle for 60 s every 600 s
Note			at 230 V, 50 Hz
150 % Overload	Р	kW	0.55
Note			at 220 - 240 V, 60 Hz
150 % Overload	Р	HP	0.5
Apparent power			
Apparent power at rated operation 230 V	S	kVA	1.08
Apparent power at rated operation 240 V	S	kVA	1.12
Braking function			
Standard braking torque			max. 30 % M _N
DC braking torque			adjustable to 100 %
Control section			
Reference voltage	Us	V	10 V DC (max. 0.2 mA)
Analog inputs			1, parameterizable, 0 - 10 V DC, 0/4 - 20 mA
Digital inputs			4, parameterizable, 10 - 30 V DC
Relay outputs			1, parameterizable, N/O, 6 A (250 V, AC-1) / 5 A (30 V, DC-1)
Interface/field bus (built-in)			OP-Bus (RS485)/Modbus RTU, CANopen [®]
Assigned switching and protective elements			
Power Wiring			
Safety device (fuse or miniature circuit-breaker)			
IEC (Type B, gG), 150 %			FAZ-B10/1N
UL (Class CC or J)		А	10
Mains contactor			
150 % overload (CT/I _H , at 50 °C)			DILEM + P1DILEM
110 % overload (VT/I _L , at 40 °C)			DILM7 + DILM12-XP1
Main choke			
150 % overload (CT/I _H , at 50 °C)			DX-LN1-009
Motor feeder			
motor choke			
150 % overload (CT/I _H , at 50 °C)			DX-LM3-005

Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	I _n	А	2.7
Heat dissipation per pole, current-dependent	P _{vid}	W	0
Equipment heat dissipation, current-dependent	P _{vid}	W	27
Static heat dissipation, non-current-dependent	P _{vs}	W	0
Heat dissipation capacity	P _{diss}	W	0
Operating ambient temperature min.		°C	-10
Operating ambient temperature max.		°C	60
			Operation (with 150 % overload)
IEC/EN 61439 design verification			
10.2 Strength of materials and parts			
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 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric 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 Insulation properties	
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 6.0

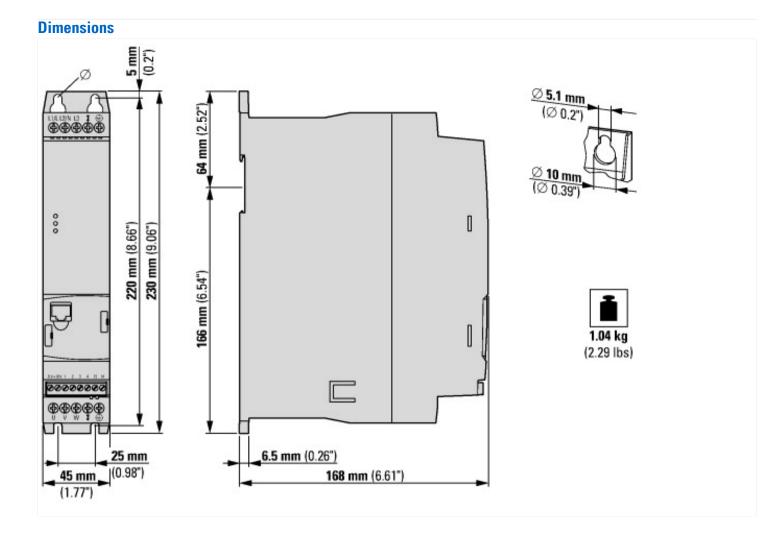
Low-voltage industrial components (EG000017) / Frequency converter =< 1 kV (EC001857)

Number of phases input S00 Hz Number of phases output 1 Number of phases output 3 Max. output frequency V 30 Max. output frequency V 30 Max. output voltage V 30 Read output current 2/2N A 2 Max. output at linear load at rated output voltage W 50 Max. output at linear load at rated output voltage W 50 Max. output at linear load at rated output voltage W 50 Mox. output at linear load at rated output voltage W 50 Mox. output at linear load at rated output voltage W 50 Mox. output at linear load at rated output voltage W 50 Application in industrial area permitted W 60 Supporting protocol for TCP/IP No 50	Electric engineering, automation, process control engineering / Electrical drive / Static frequency converter / Static frequency converter = < 1 kv (ecl@ss8.1-27-02-31-01 [AKE177011])			
Number of phases input Image: sinput Image: sinput Number of phases output Image: sinput I	Mains voltage	V	200 - 240	
Number of phases output Image: Phases output frequency Pace Pace <t< td=""><td>Mains frequency</td><td></td><td>50/60 Hz</td></t<>	Mains frequency		50/60 Hz	
Max. output frequery Hz Bit	Number of phases input		1	
Name Note Note Note Base output voltage KM 2 Max. output at quadratic load at rated output voltage KM 0 Max. output at linear load at rated output voltage KM 0 Max. output at linear load at rated output voltage KM 0 Application in industrial area permitted KM No Application in domestic - and commercial area permitted KM No Supporting protocol for TCP/IP No No Supporting protocol for TCP/IP No No Supporting protocol for TRNGFIBUS No No Supporting protocol for NNX No No Supporting protocol for MNDBUS No No Supporting protocol for DRNGN No No Supporting protocol for DNNX No No Supporting protocol for DNNX No No Supporting protocol for SUCONFT No No Supporting protocol for NPROFINET DA No No Supporting protocol for PROFINET CBA No No Suppor	Number of phases output		3	
Rated output current I2N A 2 Max. output at quadratic load at rated output voltage KW 05 Max. output at linear load at rated output voltage KW No Application in industrial area permitted KW Seporting protocol for TCP/IP Supporting protocol for CAN KM No Supporting protocol for CAN No No Supporting protocol for KNX No No Supporting protocol for GNUS No No Supporting protocol for GNUS No No Supporting protocol for CAN No No Supporting protocol for MNX No No Supporting protocol for SUPS No No Supporting protocol for NNX No No Supporting protocol for NNX No No Supporting protocol for SUPS No No Supporting protocol for NDN No No </td <td>Max. output frequency</td> <td>Hz</td> <td>300</td>	Max. output frequency	Hz	300	
Nax. output at quadratic load at rated output voltage 6 Max. output at linear load at rated output voltage 6 Max. output at linear load at rated output voltage 6 With control unit 0 Application in industrial area permitted Yes Supporting protocol for CP/IP No Supporting protocol for CAN No Supporting protocol for INTERBUS No Supporting protocol for KNX No Supporting protocol for Dat-Highway No Supporting protocol for LND Yes Supporting protocol for LND No Supporting protocol for SUGONET No Supporting protocol for Dat-Highway No Supporting protocol for LND No Supporting protocol for LND No Supporting protocol for PROFINET IO No Supporting protocol for PROFINET CBA No Supporting protocol for FORDENCES No Supporting proto	Max. output voltage	V	250	
As. output at linear load at rated output voltage 6 With control unit 0 Application in industrial area permitted 6 Application in industrial area permitted 6 Application in domestic- and commercial area permitted 6 Supporting protocol for CP/IP 0 Supporting protocol for PROFIBUS 0 Supporting protocol for NAN 6 Supporting protocol for NAN 6 Supporting protocol for DoviceNet 6 Supporting protocol for DoviceNet 6 Supporting protocol for NANS 6 Supporting protocol for NDBUS 6 Supporting protocol for NONE 6 Supporting protocol for NONE 6 Supporting protocol for NDRUE 6 Supporting protocol for NONE 6 Supporting protocol for NONE 6 Supporting protocol for NONE 6 Supporting protocol for PROFINET IO 6 Supporting protocol for SRECOS 6 Supporting protocol for FordNAtion Fieldbus 6	Rated output current I2N	Α	2.7	
With control unitNoApplication in industrial area permittedYesApplication in domestic- and commercial area permittedYesSupporting protocol for TCP/IPNoSupporting protocol for TCP/IPNoSupporting protocol for TCP/IBUSNoSupporting protocol for TANNoSupporting protocol for TANNoSupporting protocol for SAINoSupporting protocol for MNXNoSupporting protocol for MDBUSNoSupporting protocol for Data-HighwayNoSupporting protocol for SUCONETNoSupporting protocol for SUCONETNoSupporting protocol for PROFINET IONoSupporting protocol for PROFINET CBANoSupporting protocol for FROFINET CBANoSupporting protocol for FROFINET CBANoSupporting protocol for FROFINET CBANoSupporting prot	Max. output at quadratic load at rated output voltage	kW	0.5	
Application in industrial area permitted Yes Application in domestic- and commercial area permitted Yes Supporting protocol for CP/IP No Supporting protocol for CP/IP No Supporting protocol for CAN No Supporting protocol for CAN No Supporting protocol for CAN No Supporting protocol for KNX No Supporting protocol for KNX No Supporting protocol for CDVIP No Supporting protocol for SUCONET No Supporting protocol for SUCONET No Supporting protocol for SUCONET No Supporting protocol for PROFINET IO No Supporting protocol for SUCONET No Supporting protocol for SUCONET No Supporting protocol for SUCONET No Supporting protocol for PROFINET IOS No Supporting protocol for SUCONET No Supporting protocol for SUCONET No Supporting protocol for PROFINET CBA No Supporting protocol for SUCONET No Supporting protocol for SUCONET No <td>Max. output at linear load at rated output voltage</td> <td>kW</td> <td>0.5</td>	Max. output at linear load at rated output voltage	kW	0.5	
Application in domestic- and commercial area permitted Yes Supporting protocol for TCP/IP No Supporting protocol for CAN No Supporting protocol for CAN No Supporting protocol for INTERBUS No Supporting protocol for NTX No Supporting protocol for CAN No Supporting protocol for Data-Highway No Supporting protocol for SUCONET No Supporting protocol for PROFINET IO No Supporting protocol for PROFINET CBA No Supporting protocol for PROFINET CBA No Supporting protocol for SUCONET No Supporting protocol for PROFINET CBA No Supporting protocol for PROFINET CBA No Supporting protocol for SERCOS No Supporting protocol for Foundation Fieldbus No	With control unit		No	
Supporting protocol for TCP/IP No Supporting protocol for PROFIBUS No Supporting protocol for CAN No Supporting protocol for INTERBUS No Supporting protocol for KNX No Supporting protocol for KNX No Supporting protocol for Data-Highway No Supporting protocol for SUCONET No Supporting protocol for SUCONET No Supporting protocol for PROFINET IO No Supporting protocol for PROFINET CBA No Supporting protocol for SERCOS No Supporting protocol for For Of SERCOS No	Application in industrial area permitted		Yes	
Supporting protocol for PROFIBUS No Supporting protocol for CAN No Supporting protocol for CAN No Supporting protocol for INTERBUS No Supporting protocol for ASI No Supporting protocol for MDBUS No Supporting protocol for MDDBUS No Supporting protocol for Data-Highway No Supporting protocol for SUCONET No Supporting protocol for PROFINET IO No Supporting protocol for SERCOS No Supporting protocol for SERCOS No	Application in domestic- and commercial area permitted		Yes	
Supporting protocol for CAN No Supporting protocol for INTERBUS No Supporting protocol for INTERBUS No Supporting protocol for ASI No Supporting protocol for KNX No Supporting protocol for MDDBUS No Supporting protocol for Data-Highway Yes Supporting protocol for DuceNet No Supporting protocol for SUCONET No Supporting protocol for PROFINET IO No Supporting protocol for SERCOS No Supporting protocol for Foundation Fieldbus No	Supporting protocol for TCP/IP		No	
Supporting protocol for INTERBUS No Supporting protocol for ASI No Supporting protocol for KNX No Supporting protocol for MODBUS No Supporting protocol for MODBUS No Supporting protocol for Data-Highway No Supporting protocol for Data-Highway No Supporting protocol for SUCONET No Supporting protocol for PROFINETON No Supporting protocol for PROFINETOBA No Supporting protocol for PROFINETOBA No Supporting protocol for SERCOS No Supporting protocol for SERCOS No Supporting protocol for Fordation Fieldbus No	Supporting protocol for PROFIBUS		No	
Supporting protocol for ASI No Supporting protocol for KNX No Supporting protocol for MODBUS No Supporting protocol for Data-Highway Yes Supporting protocol for DeviceNet No Supporting protocol for SUCONET No Supporting protocol for PROFINET IO No Supporting protocol for PROFINET CBA No Supporting protocol for SERCOS No Supporting protocol for Sercos No	Supporting protocol for CAN		No	
Supporting protocol for KNX No Supporting protocol for MDBUS Yes Supporting protocol for Data-Highway No Supporting protocol for DeviceNet No Supporting protocol for SUCONET No Supporting protocol for PROFINET IO No Supporting protocol for PROFINET CBA No Supporting protocol for SUCONET No Supporting protocol for PROFINET CBA No Supporting protocol for SUCONET No Supporting protocol for SUCONET No Supporting protocol for PROFINET IO No Supporting protocol for SUCONET No Supporting protocol for SUCONET No Supporting protocol for SUCONET No Supporting protocol for PROFINET CBA No Supporting protocol for SUCONET No Supporting protocol for Foundation Fieldbus No	Supporting protocol for INTERBUS		No	
Supporting protocol for MODBUS Yes Supporting protocol for Data-Highway No Supporting protocol for DeviceNet No Supporting protocol for SUCONET No Supporting protocol for PROFINET IO No Supporting protocol for PROFINET CBA No Supporting protocol for SERCOS No Supporting protocol for SERCOS No Supporting protocol for Foundation Fieldbus No	Supporting protocol for ASI		No	
Supporting protocol for Data-Highway Mo Supporting protocol for DeviceNet No Supporting protocol for SUCONET Mo Supporting protocol for LON Mo Supporting protocol for PROFINET IO Mo Supporting protocol for SUCONET Mo Supporting protocol for PROFINET IO Mo Supporting protocol for SERCOS Mo Supporting protocol for SERCOS Mo Supporting protocol for Foundation Fieldbus Mo	Supporting protocol for KNX		No	
Supporting protocol for DeviceNet Mo Supporting protocol for SUCONET Mo Supporting protocol for LON Mo Supporting protocol for PROFINET IO Mo Supporting protocol for PROFINET CBA Mo Supporting protocol for SERCOS Mo Supporting protocol for Foundation Fieldbus Mo	Supporting protocol for MODBUS		Yes	
Supporting protocol for SUCONET Mo Supporting protocol for LON Mo Supporting protocol for PROFINET IO Mo Supporting protocol for PROFINET CBA Mo Supporting protocol for SERCOS Mo Supporting protocol for Foundation Fieldbus Mo	Supporting protocol for Data-Highway		No	
Supporting protocol for LONModelSupporting protocol for PROFINET IOModelSupporting protocol for PROFINET CBAModelSupporting protocol for SERCOSModelSupporting protocol for Foundation FieldbusModelSupporting protocol for Foundation FieldbusModel	Supporting protocol for DeviceNet		No	
Supporting protocol for PROFINET IO No Supporting protocol for PROFINET CBA Mo Supporting protocol for SERCOS Mo Supporting protocol for Foundation Fieldbus Mo	Supporting protocol for SUCONET		No	
Supporting protocol for PROFINET CBA Mo Supporting protocol for SERCOS Mo Supporting protocol for Foundation Fieldbus Mo	Supporting protocol for LON		No	
Supporting protocol for SERCOS No Supporting protocol for Foundation Fieldbus No	Supporting protocol for PROFINET IO		No	
Supporting protocol for Foundation Fieldbus No	Supporting protocol for PROFINET CBA		No	
	Supporting protocol for SERCOS		No	
Supporting protocol for EtherNet/IP Yes	Supporting protocol for Foundation Fieldbus		No	
	Supporting protocol for EtherNet/IP		Yes	

Supporting protocol for INTERBUS-Safety Image: Supporting protocol for PROFIsefe No Supporting protocol for SafetyBUS p Image: Supporting protocol for other bus systems Image: Supporting protocol for other bus systems Supporting protocol for other bus systems Image: Supporting protocol for other bus systems Image: Supporting Protocol for other bus systems Number of HW-interfaces RPOFINET Image: Supporting Protocol for other bus systems Image: Supporting Protocol for other bus systems Number of HW-interfaces RPOFINET Image: Supporting Protocol for other bus systems Image: Supporting Protocol for other bus systems Number of HW-interfaces RPOFINET Image: Supporting Protocol for other bus systems Image: Supporting Protocol for Other bus systems Number of HW-interfaces RPOFINET Image: Supporting Protocol for Other bus systems Image: Supporting Protocol for Other bus systems Number of HW-interfaces RPOFINET Image: Supporting Protocol for Other bus systems Image: Supporting Protocol for Other bus systems Number of HW-interfaces RPOFINET Image: Supporting Protocol for Other bus systems Image: Supporting Protocol for Other bus systems Number of HW-interfaces Support Bus systems Image: Support Bus systems Image: Support Bus systems Number of HW-interfaces Sup sup systems Image: Support Bus syste			
Supporting protocol for INTERBUS-Safety Image: Supporting protocol for PROFIsefe No Supporting protocol for SafetyBUS p Image: Supporting protocol for other bus systems Image: Supporting protocol for other bus systems Supporting protocol for other bus systems Image: Supporting protocol for other bus systems Image: Supporting Protocol for other bus systems Number of HW-interfaces RPOFINET Image: Supporting Protocol for other bus systems Image: Supporting Protocol for other bus systems Number of HW-interfaces RPOFINET Image: Supporting Protocol for other bus systems Image: Supporting Protocol for other bus systems Number of HW-interfaces RPOFINET Image: Supporting Protocol for other bus systems Image: Supporting Protocol for Other bus systems Number of HW-interfaces RPOFINET Image: Supporting Protocol for Other bus systems Image: Supporting Protocol for Other bus systems Number of HW-interfaces RPOFINET Image: Supporting Protocol for Other bus systems Image: Supporting Protocol for Other bus systems Number of HW-interfaces RPOFINET Image: Supporting Protocol for Other bus systems Image: Supporting Protocol for Other bus systems Number of HW-interfaces Support Bus systems Image: Support Bus systems Image: Support Bus systems Number of HW-interfaces Sup sup systems Image: Support Bus syste			No
Number of HW-interfaces industrial Ethernet No Number of HW-interfaces RS-522 Ves Number of HW-interfaces RS-522 0 Number of HW-interfaces RS-523 Ves Number of HW-interfaces RS-624 Ves Number of HW-interfaces RS-625 Ves Number of HW-interfaces RS-626 Ves Number of HW-interfaces RS-627 Ves Number of HW-interfaces RS-628 Ves Number of HW-interfaces RS-629 Ves	Supporting protocol for DeviceNet Safety		No
Supporting protocol for safetyBUS p No Supporting protocol for other bus systems Yes Number of HW-interfaces RPOFINET 0 Number of HW-interfaces RS-322 0 Number of HW-interfaces RS-422 0 Number of HW-interfaces RS-435 1 Number of HW-interfaces RS-435 1 Number of HW-interfaces RS-435 1 Number of HW-interfaces parallel 1 Number of HW-interfaces other 0 Number of HW-interfaces other No Number of HW-interfaces other No Number of HW-interfaces other No Number of HW-interfaces	Supporting protocol for INTERBUS-Safety		No
Kupportion protocol for other bus systems Main Yes Number of HW-interfaces industrial Ethernet 0 0 Number of HW-interfaces PROFINET 0 0 Number of HW-interfaces RS-232 0 0 Number of HW-interfaces RS-425 0 0 Number of HW-interfaces RS-485 0 0 Number of HW-interfaces serial TTY 0 0 Number of HW-interfaces other 0 0 Inter	Supporting protocol for PROFIsafe		No
Number of HW-interfaces industrial Ethernet Image: second se	Supporting protocol for SafetyBUS p		No
Number of HW-interfaces PROFINET Aumber of HW-interfaces RS-232 Number of HW-interfaces RS-422 Composed FM-interfaces RS-426 Composed FM-interfaces RS-485 Composed FM-interfaces RS-485 Composed FM-interfaces RS-485 Composed FM-interfaces Serial TY Composed FM-interfaces Serial TY	Supporting protocol for other bus systems		Yes
Number of HW-interfaces RS-232 0 Number of HW-interfaces RS-422 0 Number of HW-interfaces RS-435 1 Number of HW-interfaces RS-435 0 Number of HW-interfaces Start TY 0 Number of HW-interfaces Start TY 0 Number of HW-interfaces observation No Number of HW-interfaces observation	Number of HW-interfaces industrial Ethernet		0
Number of HW-interfaces RS-422 I Number of HW-interfaces RS-485 I Number of HW-interfaces RS-485 I Number of HW-interfaces SR-485 I Number of HW-interfaces serial TTY I Number of HW-interfaces serial TTY I Number of HW-interfaces SR-485	Number of HW-interfaces PROFINET		0
Number of HW-interfaces RS-485 I Number of HW-interfaces serial TTY I Number of HW-interfaces serial TTY I Number of HW-interfaces userial TTY I Number of HW-interfac	Number of HW-interfaces RS-232		0
Number of HW-interfaces serial TTY Image: seri	Number of HW-interfaces RS-422		0
Number of HW-interfaces USB 0 Number of HW-interfaces parallel 0 Number of HW-interfaces other 0 With optical interfaces other 0 With optical interfaces other No With Optical interfaces other No With Optical interfaces other No With Optical interfaces No Page of protection (IP) Vorverter Page of protection (IP) Imm Height mm Withh Sold Popth mm Bage of protection (IP) Imm With NB Sold Muth NB Sold <tr< td=""><td>Number of HW-interfaces RS-485</td><td></td><td>1</td></tr<>	Number of HW-interfaces RS-485		1
Number of HW-interfaces parallel I	Number of HW-interfaces serial TTY		0
Number of HW-interfaces other Image: Status of the sta	Number of HW-interfaces USB		0
With optical interfaceNoWith PC connectionMoIntegrated breaking resistanceMo4-quadrant operation possibleNoType of converterMoDegree of protection (IP)MoHeightMoWith PCMoDepthMoDepthMoBelaive symmetric net frequency tolerance%Sector Stream%Sector Stream% <td>Number of HW-interfaces parallel</td> <td></td> <td>0</td>	Number of HW-interfaces parallel		0
With PC connection No Integrated breaking resistance No 4-quadrant operation possible No Type of converter Vo Degree of protection (IP) Vo Height mm Vithh mm Depth mm Best of the symmetric net frequency tolerance Mit Set of the symmetric net frequency tolerance Mit	Number of HW-interfaces other		0
Integrated breaking resistance Mo 4-quadrant operation possible Mo Type of converter Mo Degree of protection (IP) Imm Height mm Width Mn Depth mm Betwee of protection (IP) Mo	With optical interface		No
4-quadrant operation possibleNoType of converterU converterDegree of protection (IP)ImmHeightmmWidthmmDepthmmRelative symmetric net frequency tolerance%Main%<	With PC connection		No
Type of converter Image: Converter Image: Converter Degree of protection (IP) Image: Converter IP20 Height Image: Converter S0 Width Image: Converter S0 Depth Image: Converter Image: Converter Relative symmetric net frequency tolerance Image: Converter Image: Converter	Integrated breaking resistance		No
Degree of protection (IP) IP20 Height mm 230 Width mm 45 Depth mm 168 Relative symmetric net frequency tolerance % %	4-quadrant operation possible		No
Heightmm20Widthmm5Depthmm168Relative symmetric net frequency tolerance%%	Type of converter		U converter
Widthmm45Depthmm168Relative symmetric net frequency tolerance%%	Degree of protection (IP)		IP20
Depth mm 168 Relative symmetric net frequency tolerance % 5	Height	mm	230
Relative symmetric net frequency tolerance % 5	Width	mm	45
	Depth	mm	168
Relative symmetric net current tolerance % 10	Relative symmetric net frequency tolerance	%	5
	Relative symmetric net current tolerance	%	10

Approvals

- PP	
Product Standards	UL 508C; CSA-C22.2 No. 14; IEC/EN61800-3; IEC/EN61800-5; CE marking
UL File No.	E172143
UL Category Control No.	NMMS, NMMS7
CSA File No.	UL report applies to both US and Canada
North America Certification	UL listed, certified by UL for use in Canada
Specially designed for North America	No
Suitable for	Branch circuits
Max. Voltage Rating	1~ 240 V AC IEC: TN-S UL/CSA: "Y" (Solidly Grounded Wey)
Degree of Protection	IEC: IP20



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Eaton manufacturer:

Other Similar products are found below :

C14G6S CTX01-18994-R 89096-015 8961K155 M22-D-R-GB0/K11 M22-DRP-S M22-L-R/R M22-PVLT45P 630NHG3B 63ENSF 6422 6580 CWL530FI 703-91T-3476-1 ESR5-NE-51-24VAC-DC F02A250V1-1-2A F02A250V2A MDA-5-R MDA-V-15-R MDL-V-30 F60C500V10AS MDQ-V-3/8 77PCG4 FAZ-C2 FAZ-C25 MIC-2 80910030 810K12910 FNQ-R-1-8/10 FP-A3 FRS-R-150 FRS-R-17-1/2 FRS-R-60 FRS-R-65 FRS-R-8 8825K5 FWP-125 FWP-50B FWP-80A PFIM-25/2/003 PFIM-40/4/003-G/A PKNM-25/1N/B/03 PKZ2IS-SP PKZM4-50 GFA-1-1/2 GLD-12 GLQ-2 GLR-9 GMC-500-R GMC-V-2.5A