

INDUSTRIAL COMPONENT DATA

DC1-122D3NN-A20N 169222 EATON ELECTRIC Variable Frequency Drive, 1-/3- 230 V, 2.3 A, 0.37 kW

Brand: EATON - MOELLER | Manufacturer Part Number: DC1-122D3NN-A20N



Manufacturer	EATON - MOELLER
MPN / Reference	DC1-122D3NN-A20N
Catalog number	DC1-122D3NN-A20N
Category	Frequency converter less than 1 kV
Minimum order	1 unit
Document ID	EO-95A8076B9A
Generated	2026-08-05

Product Overview

Variable Frequency Drive, 1-/3- 230 V, 2.3 A, 0.37 kW

Variable frequency drive, Part group reference (e.g. DIL): DC1, Rated operational voltage: $U_e = 230\text{ V AC}$, 1-phase, 240 V AC, single-phase, Output voltage with V_e : $U_2 = 230\text{ V AC}$, 3-phase, 240 V AC, 3-phase, Mains voltage (50/60Hz): $U_{LN} = 200\text{ (-10\%)} - 240\text{ (+10\%)}\text{ V}$, Rated operational current At 150% overload: $I_e = 2.3\text{ A}$, Note: Rated operational current at an operating frequency of 16 kHz and an ambient air temperature of +50 °C, Note: Overload cycle for 60 s every 600 s, Assigned motor rating 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 , Overload cycle for 60 s every 600 s, at 230 V, 50 Hz, Assigned motor rating 150 % Overload: $P = 0.37\text{ kW}$, 150 % Overload: $I_M = 2\text{ A}$, Assigned motor rating Note: at 220 - 240 V, 60 Hz, Assigned motor rating 150 % Overload: $P = 0.5\text{ HP}$, Assigned motor rating 150 % Overload: $I_M = 2.2\text{ A}$, Degree of Protection: IP20/NEMA 0, Interface/field bus (built-in): OP-Bus (RS485)/Modbus RTU, CANopen®, Fieldbus connection (optional): SmartWire-DT, Fitted with: 7-digital display assembly, Frame size: FS1, Connection to SmartWire-DT: with SmartWire-DT module DX-NET-SWD3, Standards: Specification for general requirements: IEC/EN 61800-2 , EMC requirements: IEC/EN 61800-3, Safety requirements: IEC/EN 61800-5-1

STRUCTURED PRODUCT DATA

Technical Specifications

TECHNICAL ATTRIBUTE	VALUE
Mains voltage (EF006780)	200 V
Max. output frequency (EF007350)	500 Hz
Number of analogue outputs (EF001995)	1
Number of analogue inputs (EF001994)	2
Number of digital outputs (EF001993)	1
Number of digital inputs (EF001992)	4

CONTINUED

Technical Specifications

TECHNICAL ATTRIBUTE	VALUE
With control element (EF001538)	No
Application in industrial area permitted (EF007294)	No
Application in domestic- and commercial area permitted (EF007295)	No
Supporting protocol for TCP/IP (EF003050)	No
Supporting protocol for PROFIBUS (EF003052)	No
Supporting protocol for CAN (EF003053)	No
Supporting protocol for INTERBUS (EF003054)	No
Supporting protocol for ASI (EF003051)	No
Supporting protocol for KNX (EF003055)	No
Supporting protocol for Modbus (EF003057)	No
Supporting protocol for Data-Highway (EF003058)	No
Supporting protocol for DeviceNet (EF003059)	No
Supporting protocol for SUCONET (EF003060)	No
Supporting protocol for LON (EF003017)	No
Supporting protocol for PROFINET IO (EF007525)	No
Supporting protocol for PROFINET CBA (EF007524)	No
Supporting protocol for SERCOS (EF006657)	No
Supporting protocol for Foundation Fieldbus (EF007522)	No
Supporting protocol for EtherNet/IP (EF007521)	No
Supporting protocol for AS-Interface Safety at Work (EF007519)	No
Supporting protocol for DeviceNet Safety (EF007520)	No
Supporting protocol for INTERBUS-Safety (EF006662)	No
Supporting protocol for PROFIsafe (EF007526)	No
Supporting protocol for SafetyBUS p (EF007527)	No
Supporting protocol for BACnet (EF011944)	No
Supporting protocol for other bus systems (EF003062)	No
With optical interface (EF003028)	No
With PC connection (EF006107)	No
Integrated breaking resistance (EF007293)	No
4-quadrant operation possible (EF006803)	No
Degree of protection (IP) (EF005474)	IP20
Degree of protection (NEMA) (EF011959)	Other
Height (EF000040)	184 mm

CONTINUED

Technical Specifications

TECHNICAL ATTRIBUTE	VALUE
Width (EF000008)	81 mm
Depth (EF000049)	124 mm

Classification & Catalog Path

Catalog path	EATON - MOELLER > Power XL Frequency Converters
--------------	---

Additional Product Information

Delivery programme Product range Variable frequency drives
 Part group reference (e.g. DIL) DC1
 Rated operational voltage Ue 230 V AC, 1-phase
 240 V AC, single-phase
 Output voltage with Ve U2 230 V AC, 3-phase
 240 V AC, 3-phase
 Mains voltage (50/60Hz) ULN V 200 (-10%) - 240 (+10%)
 Rated operational current
 At 150% overload Ie A 2.3
 Note Rated operational current at an operating frequency of 16 kHz and an ambient air temperature of +50 °C
 Note Overload cycle for 60 s every 600 s
 Assigned motor rating
 Note for normal internally and externally ventilated 4 pole, three-phase asynchronous motors with 1500 rpm-1at 50 Hz or 1800 min-1at 60 Hz
 Note Overload cycle for 60 s every 600 s
 Note at 230 V, 50 Hz
 150 % Overload P kW 0.37
 150 % Overload IM A 2
 Note at 220 - 240 V, 60 Hz
 150 % Overload P HP 0.5
 150 % Overload IM A 2.2
 Degree of Protection IP20/NEMA 0
 Interface/field bus (built-in) OP-Bus (RS485)/Modbus RTU, CANopen®
 Fieldbus connection (optional) SmartWire-DT
 Fitted with 7-digital display assembly
 Frame size FS1
 Connection to SmartWire-DT with SmartWire-DT module DX-NET-SWD3
 Technical....

REQUEST PRICE, AVAILABILITY & TECHNICAL REVIEW

Send EATON - MOELLER / DC1-122D3NN-A20N with the required quantity to info@electricaonline.com or use electricaonline.com/request-quote.

GLOBAL OFFICES

Germany: Lise-Meitner-Straße 13, 89081 Ulm | USA: 16225 Park Ten Pl #500, Houston, TX 77084 | UAE: HDS Business Centre Tower, Cluster M, 33rd Floor, JLT, Dubai

Catalog-generated document. Product names, marks and specifications belong to their respective owners. Verify safety-critical, compatibility and certification requirements against the manufacturer documentation before purchase or installation.