

INDUSTRIAL COMPONENT DATA

DA1-127D0FB-A20C 169081 Y7-169081 EATON ELECTRIC
Variable frequency drive, 230 V AC, 1-phase, 7 A, 1.5 kW, I..

Brand: EATON - MOELLER | Manufacturer Part Number: DA1-127D0FB-A20C



Manufacturer	EATON - MOELLER
MPN / Reference	DA1-127D0FB-A20C
Catalog number	Y7-169081
Category	Frequency converter less than 1 kV
Minimum order	1 unit
Document ID	EO-CB3D243298
Generated	2026-08-04

Product Overview

Variable frequency drive, 230 V AC, 1-phase, 7 A, 1.5 kW, IP20/NEMA 0, Radio interference suppression filter, 7-digital display assembly

DA1-127D0FB-A20C

Variable frequency drive, Part group reference (e.g. DIL): DA1, 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): $U_{LN} = 200 (-10\%) - 240 (+10\%) \text{ V}$, Rated operational current At 150% overload: $I_e = 7 \text{ A}$, Note: Rated operational current at an operating frequency of 16 kHz and an ambient air temperature of $+50^\circ \text{C}$, 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: $P = 1.5 \text{ kW}$, 150 % Overload: $I_M = 6.3 \text{ A}$, Assigned motor rating Note: at 220 - 240 V, 60 Hz, Assigned motor rating 150 % Overload: $P = 2 \text{ HP}$, Assigned motor rating 150 % Overload: $I_M = 6.8 \text{ A}$, Degree of Protection: IP20/NEMA 0, Interface/field bus (built-in): OP-Bus (RS485)/Modbus RTU, CANopen®, Fieldbus connection (optional): Ethernet IP, DeviceNet, PROFIBUS, PROFINET, Modbus-TCP, EtherCAT, SmartWire-DT, Fitted with: Radio interference suppression filter, Brake chopper, Additional PCB protection, 7-digital display...

STRUCTURED PRODUCT DATA

Technical Specifications

TECHNICAL ATTRIBUTE	VALUE
Mains voltage (EF006780)	200 V
Mains frequency (EF006783)	50/60 Hz
Number of phases input (EF007117)	1
Number of phases output (EF006998)	3
Max. output frequency (EF007350)	500 Hz

CONTINUED

Technical Specifications

TECHNICAL ATTRIBUTE	VALUE
Max. output voltage (EF009560)	250 V
Nominal output current I _{2N} (EF009561)	7 A
Max. output at quadratic load at rated output voltage (EF007366)	1.5 kW
Max. output at linear load at rated output voltage (EF007364)	1.5 kW
Power consumption (EF000346)	63 W
Relative symmetric net frequency tolerance (EF007454)	10 %
Relative symmetric net voltage tolerance (EF007453)	10 %
Number of analogue outputs (EF001995)	2
Number of analogue inputs (EF001994)	2
Number of digital outputs (EF001993)	2
Number of digital inputs (EF001992)	5
With control element (EF001538)	Yes
Application in industrial area permitted (EF007294)	Yes
Application in domestic- and commercial area permitted (EF007295)	Yes
Supporting protocol for TCP/IP (EF003050)	Yes
Supporting protocol for PROFIBUS (EF003052)	Yes
Supporting protocol for CAN (EF003053)	Yes
Supporting protocol for INTERBUS (EF003054)	No
Supporting protocol for ASI (EF003051)	No
Supporting protocol for KNX (EF003055)	No
Supporting protocol for Modbus (EF003057)	Yes
Supporting protocol for Data-Highway (EF003058)	No
Supporting protocol for DeviceNet (EF003059)	Yes
Supporting protocol for SUCONET (EF003060)	No
Supporting protocol for LON (EF003017)	No
Supporting protocol for PROFINET IO (EF007525)	Yes
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)	Yes
Supporting protocol for AS-Interface Safety at Work (EF007519)	No
Supporting protocol for DeviceNet Safety (EF007520)	No
Supporting protocol for INTERBUS-Safety (EF006662)	No

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Technical Specifications

TECHNICAL ATTRIBUTE	VALUE
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)	Yes
Number of HW-interfaces industrial Ethernet (EF003020)	0
Number of interfaces PROFINET (EF006932)	0
Number of HW-interfaces RS-232 (EF003021)	0
Number of HW-interfaces RS-422 (EF003022)	0
Number of HW-interfaces RS-485 (EF003023)	1
Number of HW-interfaces serial TTY (EF003024)	0
Number of HW-interfaces USB (EF003025)	0
Number of HW-interfaces parallel (EF003026)	0
Number of HW-interfaces other (EF003027)	0
With optical interface (EF003028)	No
With PC connection (EF006107)	Yes
Integrated breaking resistance (EF007293)	Yes
4-quadrant operation possible (EF006803)	Yes
Type of converter (EF006978)	U converter
Degree of protection (IP) (EF005474)	IP20
Degree of protection (NEMA) (EF011959)	Other
Height (EF000040)	231 mm
Width (EF000008)	107 mm
Depth (EF000049)	186 mm

Classification & Catalog Path

Catalog path	EATON - MOELLER > Power XL Frequency Converters
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Additional Product Information

General specifications

Product Name Eaton DA1 Variable frequency drive Catalog Number 169081 Model Code DA1-127D0FB-A20C EAN 4015081655670 Product Length/Depth 186 mm Product Height 231 mm Product Width 107 mm Product Weight 1.8 kg

Certifications Certified by UL for use in Canada

CE

CUL

IEC/EN61800-3

UL Category Control No.: NMMS, NMMS7

UL report applies to both US and Canada

Specification for general requirements: IEC/EN 61800-2

UL

RCM

UL 508C

UkrSEPRO

UL File No.: E172143

CSA-C22.2 No. 14

IEC/EN 61800-3

Safety: EN 61800-5-1: 2003

EAC

IEC/EN61800-5

RoHS, ISO 9001 Catalog Notes The brake resistors are assigned based on the maximum rated power of the variable frequency drive. Additional brake resistors and designs (e.g. different duty cycles) are available upon request. General

Cable length 200 m, screened, with motor choke, maximum permissible, Motor feeder

C1 ≤ 1 m, Radio interference level, maximum motor cable length

C3 ≤ 25 m, Radio interference level, maximum motor cable length

C2 ≤ 5 m, Radio interference level, maximum motor cable length

150 m, unscreened, maximum permissible,...

REQUEST PRICE, AVAILABILITY & TECHNICAL REVIEW

Send EATON - MOELLER / DA1-127D0FB-A20C 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

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