DATASHEET - DA1-124D3FB-A20C

Variable frequency drive, 230 V AC, 1-phase, 4.3 A, 0.75 kW, IP20/NEMA 0, Radio interference suppression filter, 7-digital display assembly



Part no.	DA1-124D3FB-A20C
	169078
EL Number	4137153
(Norway)	

(Norway) **General specifications** Product name Eaton DA1 Variable frequency drive DA1-124D3FB-A20C Part no. 4015081655656 FAN 186 millimetre Product Length/Depth Product height 231 millimetre Product width 107 millimetre 1.8 kilogram Product weight IEC/EN61800-3 Certifications IEC/EN 61800-3 UL File No.: E172143 UkrSEPRO UL EAC Safety: EN 61800-5-1: 2003 UL Category Control No.: NMMS, NMMS7 IEC/EN61800-5 UL report applies to both US and Canada CUL UL 508C Specification for general requirements: IEC/EN 61800-2 RoHS, ISO 9001 Certified by UL for use in Canada CSA-C22.2 No. 14 RCM CE Product Tradename DA1 Variable frequency drive Product Type Product Sub Type None 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 information** Cable length 150 m, unscreened, maximum permissible, Motor feeder C1 ≤ 1 m, Radio interference level, maximum motor cable length $\text{C2} \leq 5$ m, Radio interference level, maximum motor cable length $C3 \leq 25$ m, Radio interference level, maximum motor cable length 100 m, screened, maximum permissible, Motor feeder 200 m, screened, with motor choke, maximum permissible, Motor feeder 300 m, unscreened, with motor choke, maximum permissible, Motor feeder Communication interface CANopen®, built in Ethernet IP, optional DeviceNet, optional PROFIBUS, optional OP-Bus (RS485), built in Modbus-TCP, optional SmartWire-DT, optional EtherCAT, optional Modbus RTU, built in **PROFINET**, optional Connection to SmartWire-DT Yes In conjunction with DX-NET-SWD1 SmartWire DT module Degree of protection IP20 NEMA Other Electromagnetic compatibility 1st and 2nd environments (according to EN 61800-3) Fitted with: PC connection Breaking resistance Control unit Brake chopper 7-digital display assembly Radio interference suppression filter Internal DC link Additional PCB protection IGBT inverter Frame size FS2

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Rated frequency - max 62 Hz	
Rated operational current (Ie) at 150% overload 4.3 A	
Rated operational power at 220/230 V, 50 Hz, 1-phase 0.75 kW Rated operational voltage 230 V AC, 1-phase 240 V AC, 1-phase 240 V AC, 1-phase	
Resolution 0.1 Hz (Frequency resolution, setpoint value) Short-circuit protection rating 16 A, UL (Class CC or J), Safety device (fuse or minia Wiring	ture circuit-breaker), Power

observed.	Starting current - max	200 %, IH, max. starting current (High Overload), for 4 seconds every 40 seconds, Power section
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Webser stingNote of the second se	Switching frequency	16 kHz, 4 - 32 kHz adjustable (audible), fPWM, Power section, Main circuit
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Apparent power at 280 V Apparent power	Assigned motor current IM at 230 V, 50 Hz, 150% overload	3.2 A
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	10.12 Electromagnetic compatibility	

The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

Technical data ETIM 9.0

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

Electric engineering, automation, process control engineering / Electrical drive / Stati		/ Static frequency / Servo converter = < 1 kV (ecl@ss13-27-02-31-01 [AKE177019])
Mains voltage	V	200 - 240
Mains frequency		50/60 Hz
Number of phases input		1
Number of phases output		3
Max. output frequency	Hz	500
Max. output voltage	V	250
Nominal output current I2N	А	4.3
Max. output at quadratic load at rated output voltage	kW	0.75
Max. output at linear load at rated output voltage	kW	0.75
Power consumption	W	45.75
Relative symmetric net frequency tolerance	%	10
Relative symmetric net voltage tolerance	%	10
Number of analogue outputs		2
Number of analogue inputs		2
Number of digital outputs		2
Number of digital inputs		5
With control element		Yes
Application in industrial area permitted		Yes
Application in domestic- and commercial area permitted		Yes
Supporting protocol for TCP/IP		Yes
Supporting protocol for PROFIBUS		Yes
Supporting protocol for CAN		Yes
Supporting protocol for INTERBUS		No
Supporting protocol for ASI		No
Supporting protocol for KNX		No
Supporting protocol for Modbus		Yes
Supporting protocol for Data-Highway		No
Supporting protocol for DeviceNet		Yes
Supporting protocol for SUCONET		No
Supporting protocol for LON		No
Supporting protocol for PROFINET IO		Yes
Supporting protocol for PROFINET CBA		No
Supporting protocol for SERCOS		No
Supporting protocol for Foundation Fieldbus		No
Supporting protocol for EtherNet/IP		Yes
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 BACnet		No
Supporting protocol for other bus systems		Yes
Number of HW-interfaces industrial Ethernet		0
Number of interfaces PROFINET		0
Number of HW-interfaces RS-232		0
Number of HW-interfaces RS-422		0
Number of HW-interfaces RS-485		1
Number of HW-interfaces serial TTY		0
Number of HW-interfaces USB		0
Number of HW-interfaces parallel		0
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Number of HW-interfaces other		0
With optical interface		No
With PC connection		Yes
Integrated breaking resistance		Yes
4-quadrant operation possible		Yes
Type of converter		U converter
Degree of protection (IP)		IP20
Degree of protection (NEMA)		Other
Height	mm	231
Width	mm	107
Depth	mm	186