

INDUSTRIAL COMPONENT DATA

DC1-S27D0FN-A20CE1 186091 Y7-186091 EATON ELECTRIC

Variable frequency drives, 1-/single-phase 230 V, 7.0 A, ..

Brand: EATON - MOELLER | Manufacturer Part Number: DC1-S27D0FN-A20CE1



Manufacturer	EATON - MOELLER
MPN / Reference	DC1-S27D0FN-A20CE1
Catalog number	Y7-186091
Category	Frequency converter less than 1 kV
Minimum order	1 Pcs
Document ID	EO-4471163DB5
Generated	2026-08-04

Product Overview

Variable frequency drives, 1-/single-phase 230 V, 7.0 A, 0.75 kW, EMC Filters

DC1-S27D0FN-A20CE1

Eaton DC1 Variable frequency drive, 230 V AC, 1-phase, 7 A, 0.75 kW, IP20/NEMA 0, Radio interference suppression filter, FS1 DC1-S27D0FN-A20CE1

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 : $U_2 = 230 \text{ V AC}$, single-phase, 240 V AC, single-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 AC motors with internal and external ventilation with 50/60 Hz without additional start capacitor, Overload cycle for 60 s every 600 s, at 230 V, 50 Hz, Assigned motor rating 150 % Overload: $P = 0.75 \text{ kW}$, 150 % Overload: $I_M = 7 \text{ A}$, Assigned motor rating Note: at 220 - 240 V, 60 Hz, Assigned motor rating 150 % Overload: $P = 1 \text{ HP}$, 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): SmartWire-DT, Fitted with: Radio interference suppression filter, 7-digital display assembly, Frame size: FS1, Standards: Specifi...

STRUCTURED PRODUCT DATA

Technical Specifications

No structured technical attributes are currently available. Submit an RFQ for technical review.

Classification & Catalog Path

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

Additional Product Information

General specifications

Product Name Eaton DC1 Variable frequency drive Catalog Number 186091 Model Code DC1-S27D0FN-A20CE1 EAN

4015081815920 Product Length/Depth 124 mm Product Height 184 mm Product Width 81 mm Product Weight 1.2 kg

Certifications IEC/EN61800-5

Safety requirements: IEC/EN 61800-5-1

Specification for general requirements: IEC/EN 61800-2

CSA-C22.2 No. 14

UL 508C

UL Category Control No.: NMMS, NMMS7

RoHS, ISO 9001

Certified by UL for use in Canada

CUL

UL File No.: E172143

EAC

UL

UkrSEPRO

IEC/EN61800-3

RCM

UL report applies to both US and Canada

IEC/EN 61800-3

CE Catalog Notes Environmental class: 3C2, 3S2 Features & Functions

Features Parameterization: drivesConnect

Parameterization: drivesConnect mobile (App)

Parameterization: Fieldbus

Parameterization: Keypad Fitted with: Control unit

Radio interference suppression filter

PC connection

IGBT inverter

7-digital display assembly

Internal DC link

Additional PCB protection General

Cable length C1 $\leq$ 1 m, Radio interference level, maximum motor cable length

C2 $\leq$ 5 m, Radio interference level, maximum motor cable length

75 m, unscreened, maximum permissible, Motor feeder

C3 $\leq$ 25 m, Radio interference level, maximum motor cable length

150 m, unscreened, with motor choke, maximum permissible, Motor feeder

50 m, screened, maximum permissible, Motor feeder

100 m, screened, with motor choke, maximum permissible, Motor feeder Communication interface SmartWire-DT, optional

Modbus RTU, built in

OP-Bus (RS485), built in

CANop...

REQUEST PRICE, AVAILABILITY & TECHNICAL REVIEW

Send EATON - MOELLER / DC1-S27D0FN-A20CE1 with the required quantity to info@electricaonline.com or use electricaonline.com/request-quote.

GLOBAL OFFICES

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