

**INDUSTRIAL COMPONENT DATA**

# DC1-34024NB-A20CE1 185742 Y7-185742 EATON ELECTRIC

## Variable frequency drive, 400 V AC, 3-phase, 24 A, 11 kW,..

Brand: EATON - MOELLER | Manufacturer Part Number: DC1-34024NB-A20CE1



|                 |                                    |
|-----------------|------------------------------------|
| Manufacturer    | EATON - MOELLER                    |
| MPN / Reference | DC1-34024NB-A20CE1                 |
| Catalog number  | Y7-185742                          |
| Category        | Frequency converter less than 1 kV |
| Minimum order   | 1 Pcs                              |
| Document ID     | EO-FAC702C089                      |
| Generated       | 2026-08-06                         |

### Product Overview

Variable frequency drive, 400 V AC, 3-phase, 24 A, 11 kW, IP20/NEMA 0, Brake chopper, FS3

DC1-34024NB-A20CE1

Eaton DC1 Variable frequency drive, 400 V AC, 3-phase, 24 A, 11 kW, IP20/NEMA 0, Brake chopper, FS3

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Variable frequency drive, Part group reference (e.g. DIL): DC1, Rated operational voltage:  $U_e = 400 \text{ V AC}$ , 3-phase, 480 V AC, 3-phase, Output voltage with  $V_e$ :  $U_2 = 400 \text{ V AC}$ , 3-phase, 480 V AC, 3-phase, Mains voltage (50/60Hz):  $U_{LN} = 380 (-10\%) - 480 (+10\%) \text{ V}$ , Rated operational current At 150% overload:  $I_e = 24 \text{ A}$ , Note: Rated operational current at a switching frequency of 8 kHz and an ambient air temperature of  $+50 \text{ }^\circ\text{C}$ , 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 400 V, 50 Hz, Assigned motor rating 150 % Overload:  $P = 11 \text{ kW}$ , 150 % Overload:  $I_M = 21.7 \text{ A}$ , Assigned motor rating Note: at 440 - 480 V, 60 Hz, Assigned motor rating 150 % Overload:  $P = 15 \text{ HP}$ , Assigned motor rating 150 % Overload:  $I_M = 21 \text{ A}$ , Degree of Protection: IP20/NEMA 0, Interface/field bus (built-in): OP-Bus (RS485)/Modbus RTU, CANopen®, Fieldbus connection (optional): SmartWire-DT, Fitted with: Brake chopper, 7-digital display assembly, Frame size: FS3, Standards: Specification for general...

**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

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### General specifications

Product Name Eaton DC1 Variable frequency drive Catalog Number 185742 Model Code DC1-34024NB-A20CE1 EAN 4015081812417 Product Length/Depth 175 mm Product Height 273 mm Product Width 129 mm Product Weight 6 kg

Certifications Specification for general requirements: IEC/EN 61800-2

UL File No.: E172143

IEC/EN 61800-3

Safety requirements: IEC/EN 61800-5-1

UL report applies to both US and Canada

UkrSEPRO

UL Category Control No.: NMMS, NMMS7

RCM

EAC

IEC/EN61800-3

UL 508C

CE

IEC/EN61800-5

UL

CUL

RoHS, ISO 9001

Certified by UL for use in Canada

CSA-C22.2 No. 14 Catalog Notes Features & Functions

Features Parameterization: drivesConnect

Parameterization: drivesConnect mobile (App)

Parameterization: Fieldbus

Parameterization: Keypad Fitted with: PC connection

Breaking resistance

IGBT inverter

Brake chopper

Control unit

7-digital display assembly

Internal DC link

Additional PCB protection Functions 4-quadrant operation possible General

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

100 m, screened, maximum permissible, Motor feeder

150 m, unscreened, maximum permissible, Motor feeder

300 m, unscreened, with motor choke, maximum permissible, Motor feeder Communication interface SmartWire-DT, optional

CANopen®, built in

Modbus RTU, built in

OP-Bus (RS485), built in Connection to SmartWire-DT Yes

In conjunction with DX-NET-SWD3 SmartWire DT module Degree of protection IP20

NEMA Other Frame size FS3 Mounting position Vertical Product...

## REQUEST PRICE, AVAILABILITY & TECHNICAL REVIEW

Send EATON - MOELLER / DC1-34024NB-A20CE1 with the required quantity to [info@electricaonline.com](mailto:info@electricaonline.com) or use [electricaonline.com/request-quote](https://electricaonline.com/request-quote).

### GLOBAL OFFICES

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