

## INDUSTRIAL COMPONENT DATA

**DA1-35054NB-B55C 176969 Y7-176969 EATON ELECTRIC**  
**Variable frequency drive, 500 V AC, 3-phase, 54 A, 37 kW, I..**

Brand: EATON - MOELLER | Manufacturer Part Number: DA1-35054NB-B55C



|                 |                                    |
|-----------------|------------------------------------|
| Manufacturer    | EATON - MOELLER                    |
| MPN / Reference | DA1-35054NB-B55C                   |
| Catalog number  | Y7-176969                          |
| Category        | Frequency converter less than 1 kV |
| Minimum order   | 1 Pcs                              |
| Document ID     | EO-79E4B63F82                      |
| Generated       | 2026-08-05                         |

**Product Overview**

Variable frequency drive, 500 V AC, 3-phase, 54 A, 37 kW, IP55/NEMA 12, OLED display, DC link choke

DA1-35054NB-B55C

Variable frequency drive, Part group reference (e.g. DIL): DA1, Rated operational voltage:  $U_e = 500$  V AC, 3-phase, 600 V AC, 3-phase, Output voltage with  $V_e$ :  $U_2 = 500$  V AC, 3-phase, 600 V AC, 3-phase, Mains voltage (50/60Hz):  $U_{LN} = 500$  (-10%) - 600 (+10%) V, Rated operational current At 150% overload:  $I_e = 54$  A, Note: Rated operational current at a switching frequency of 8 kHz and an ambient air temperature of +40 °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 500 V, 50 Hz, Assigned motor rating 150 % Overload:  $P = 37$  kW, 150 % Overload:  $I_M = 54$  A, Assigned motor rating Note: at 525 V, 50 Hz, Assigned motor rating 150 % Overload:  $P = 37$  kW, 150 % Overload:  $I_M = 51.5$  A, Assigned motor rating Note: at 550 - 600 V, 60 Hz, Assigned motor rating 150 % Overload:  $P = 50$  HP, Assigned motor rating 150 % Overload:  $I_M = 52$  A, Degree of Protection: IP55/NEMA 12, 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: Brake chopper , OLE...

## 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 &gt; Power XL Frequency Converters

**Additional Product Information**

General specifications

Product Name Eaton DA1 Variable frequency drive Catalog Number 176969 Model Code DA1-35054NB-B55C EAN

4015081714124 Product Length/Depth 270 mm Product Height 540 mm Product Width 235 mm Product Weight 22.5 kg

Certifications UL File No.: E172143

CUL

IEC/EN61800-5

IEC/EN 61800-3

Safety: EN 61800-5-1: 2003

CSA-C22.2 No. 14

DNV

UL report applies to both US and Canada

UL 508C

Certified by UL for use in Canada

Specification for general requirements: IEC/EN 61800-2

EAC

UL

UkrSEPRO

UL Category Control No.: NMMS, NMMS7

IEC/EN61800-3

RoHS, ISO 9001

RCM

CE 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 100 m, screened, maximum permissible, Motor feeder

150 m, unscreened, 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 OP-Bus (RS485), built in

CANopen®, built in

Modbus RTU, built in

Modbus-TCP, optional

EtherCAT, optional

SmartWire-DT, optional

DeviceNet, optional

Ethernet IP, optional

PROFIBUS, optional

PROFINET, optional Connection to SmartWire-DT In conjunction with DX-NET-SWD1 SmartWire DT module

Yes Degree of protection NEMA 12

IP55 Fitted with: Control unit

OLED display

Brake chopper

Internal DC link

PC connection

Breaking resista...

## REQUEST PRICE, AVAILABILITY & TECHNICAL REVIEW

Send EATON - MOELLER / DA1-35054NB-B55C 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

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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