

## INDUSTRIAL COMPONENT DATA

**DA1-35078NB-B55C 176971 Y7-176971 EATON ELECTRIC**  
**Variable frequency drive, 500 V AC, 3-phase, 78 A, 55 kW, I..**

Brand: EATON - MOELLER | Manufacturer Part Number: DA1-35078NB-B55C



|                 |                                    |
|-----------------|------------------------------------|
| Manufacturer    | EATON - MOELLER                    |
| MPN / Reference | DA1-35078NB-B55C                   |
| Catalog number  | Y7-176971                          |
| Category        | Frequency converter less than 1 kV |
| Minimum order   | 1 Pcs                              |
| Document ID     | EO-5670643020                      |
| Generated       | 2026-08-05                         |

**Product Overview**

Variable frequency drive, 500 V AC, 3-phase, 78 A, 55 kW, IP55/NEMA 12, OLED display, DC link choke  
DA1-35078NB-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:  $I_e = 78$  A, Note: Rated operational current at an operating frequency of 4 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:  $P = 55$  kW, 150 % Overload:  $I_M = 78$  A, Assigned motor rating Note: at 525 V, 50 Hz, Assigned motor rating 150 % Overload:  $P = 55$  kW, 150 % Overload:  $I_M = 76$  A, Assigned motor rating Note: at 550 - 600 V, 60 Hz, Assigned motor rating 150 % Overload:  $P = 75$  HP, Assigned motor rating 150 % Overload:  $I_M = 77$  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 , OLED...

## 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 176971 Model Code DA1-35078NB-B55C EAN

4015081714148 Product Length/Depth 313.5 mm Product Height 865 mm Product Width 330 mm Product Weight 50 kg

Certifications CE

RCM

Safety: EN 61800-5-1: 2003

IEC/EN 61800-3

UL report applies to both US and Canada

CSA-C22.2 No. 14

IEC/EN61800-5

DNV

EAC

UkrSEPRO

UL Category Control No.: NMMS, NMMS7

Certified by UL for use in Canada

RoHS, ISO 9001

UL

UL 508C

IEC/EN61800-3

Specification for general requirements: IEC/EN 61800-2

CUL

UL File No.: E172143 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

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

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

150 m, unscreened, maximum permissible, Motor feeder Communication interface PROFINET, optional

EtherCAT, optional

Modbus RTU, built in

CANopen®, built in

SmartWire-DT, optional

PROFIBUS, optional

OP-Bus (RS485), built in

DeviceNet, optional

Modbus-TCP, optional

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

Yes Degree of protection NEMA 12

IP55 Fitted with: OLED display

IGBT inverter

Internal DC link

PC connection

Breaking resistance

Brake cho...

## REQUEST PRICE, AVAILABILITY & TECHNICAL REVIEW

Send EATON - MOELLER / DA1-35078NB-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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