

## INDUSTRIAL COMPONENT DATA

**DA1-354D1NB-B66C 176986 Y7-176986 EATON ELECTRIC**  
**Variable frequency drive, 500 V AC, 3-phase, 4.1 A, 2.2 kW,..**

Brand: EATON - MOELLER | Manufacturer Part Number: DA1-354D1NB-B66C



|                 |                                    |
|-----------------|------------------------------------|
| Manufacturer    | EATON - MOELLER                    |
| MPN / Reference | DA1-354D1NB-B66C                   |
| Catalog number  | Y7-176986                          |
| Category        | Frequency converter less than 1 kV |
| Minimum order   | 1 Pcs                              |
| Document ID     | EO-4BA2F42C81                      |
| Generated       | 2026-08-04                         |

**Product Overview**

Variable frequency drive, 500 V AC, 3-phase, 4.1 A, 2.2 kW, IP66/NEMA 4X, OLED display

DA1-354D1NB-B66C

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): ULN = 500 (-10%) - 600 (+10%) V, Rated operational current At 150% overload:  $I_e = 4.1$  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:  $P = 2.2$  kW, 150 % Overload:  $I_M = 4$  A, Assigned motor rating Note: at 525 V, 50 Hz, Assigned motor rating 150 % Overload:  $P = 2.2$  kW, 150 % Overload:  $I_M = 3.8$  A, Assigned motor rating Note: at 550 - 600 V, 60 Hz, Assigned motor rating 150 % Overload:  $P = 3$  HP, Assigned motor rating 150 % Overload:  $I_M = 3.9$  A, Degree of Protection: IP66/NEMA 4X, Interface/field bus (built-in): OP-Bus (RS485)/Modbus RTU, CANopen®, Fieldbus connection (optional): Ethernet IP, DeviceNet, PROFIBUS, PROFINET, Modbus-TCP, EtherCAT, Fitted with: Brake chopper, OLED display , Additional PCB....

## 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 DA1 Variable frequency drive Catalog Number 176986 Model Code DA1-354D1NB-B66C EAN

4015081714292 Product Length/Depth 239.3 mm Product Height 257 mm Product Width 188 mm Product Weight 1.8 kg

Certifications Certified by UL for use in Canada

CSA-C22.2 No. 14

CUL

UL

CE

IEC/EN61800-3

RCM

Safety: EN 61800-5-1: 2003

UkrSEPRO

UL report applies to both US and Canada

IEC/EN 61800-3

UL File No.: E172143

UL Category Control No.: NMMS, NMMS7

RoHS, ISO 9001

Specification for general requirements: IEC/EN 61800-2

UL 508C

IEC/EN61800-5

EAC 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

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

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

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

Modbus RTU, built in

CANopen®, built in

Modbus-TCP, optional

DeviceNet, optional

OP-Bus (RS485), built in

Ethernet IP, optional

PROFIBUS, optional

PROFINET, optional Connection to SmartWire-DT No Degree of protection IP66

NEMA 4X Fitted with: PC connection

Brake chopper

Control unit

OLED display

Breaking resistance

Internal DC link

Additional PCB protection

IGBT inverter Frame size FS2 Functions 4-quadrant...

## REQUEST PRICE, AVAILABILITY & TECHNICAL REVIEW

Send EATON - MOELLER / DA1-354D1NB-B66C 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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