

INDUSTRIAL COMPONENT DATA

**DG1-34031FB-C54C 9702-3101-00P Y7-9702-3101-00P EATON
ELECTRIC Variable frequency drive, 400 V AC, 3-phase, ..**

Brand: EATON - MOELLER | Manufacturer Part Number: DG1-34031FB-C54C



Manufacturer	EATON - MOELLER
MPN / Reference	DG1-34031FB-C54C
Catalog number	Y7-9702-3101-00P
Category	Frequency converter less than 1 kV
Minimum order	1 Pcs
Document ID	EO-3B65F74BCA
Generated	2026-08-04

Product Overview

Variable frequency drive, 400 V AC, 3-phase, 31 A, 15 kW, IP54/NEMA12, Brake chopper, DC link choke

DG1-34031FB-C54C

Variable frequency drive, Part group reference (e.g. DIL): DG1, Rated operational voltage: $U_e = 400$ V AC, 3-phase, 480 V AC, 3-phase, 500 V AC, 3-phase, Output voltage with V_e : $U_2 = 400$ V AC, 3-phase, 480 V AC, 3-phase, 500 V AC, 3-phase, Mains voltage (50/60Hz): $U_{LN} = 380$ (-15%) - 500 (+10%) V, Rated operational current At 150% overload: $I_e = 31$ A, Note: Rated operational current for a switching frequency of 1 - 12 kHz and an ambient temperature of +50 °C for a 150% overload and +40 °C for a 110% overload, Rated operational current At 110% overload: $I_e = 38$ A, 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: $P = 15$ kW, 110 % Overload: $P = 18.5$ kW, 150 % Overload: $I_M = 29.3$ A, 110 % Overload: $I_M = 36$ A, Assigned motor rating Note: at 500 V, 50 Hz, Assigned motor rating 150 % Overload: $P = 18.5$ kW, 110 % Overload: $P = 22$ kW, 150 % Overload: $I_M = 28.9$ A, 110 % Overload: $I_M = 33$ A, Assigned motor rating Note: at 480 V, 60 Hz, Assigned motor rating 150 % Overload: $P = 20$ HP, 110 % Overload: $P = 25$ HP, Assigned motor r...

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 DG1 variable frequency drive Catalog Number 9702-3101-00P Model Code DG1-34031FB-C54C
EAN 4015081710874 Product Length/Depth 265.1 mm Product Height 558 mm Product Width 204.6 mm Product Weight

22.6 kg Certifications C-Tick

RoHS, ISO 9001

CUL

UL508

IEC/EN61800-3

Certified by UL for use in Canada

EAC

CSA-C22.2 No. 274-13

IEC/EN 61800-3

Specification for general requirements: IEC/EN 61800-2

UkrSEPRO

UL File No.: E134360

CE

UL report applies to both US and Canada

IEC/EN61800-5

Safety requirements: IEC/EN 61800-5

UL Category Control No.: NMMS, NMMS7

UL 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. Features & Functions

Features Tool-less swapping of fan

Temperature-controlled fan

Parameterization: Fieldbus

Parameterization: Keypad

Parameterization: Power Xpert inControl Functions 4-quadrant operation possible General

Air volume capacity 144 m³/h Cable length 150 m, screened, maximum permissible, Motor feeder

C3 ≤ 50 m, Radio interference level, maximum motor cable length

C2 ≤ 10 m, Radio interference level, maximum motor cable length Degree of protection IP54

NEMA 12 Electromagnetic compatibility 1st and 2nd environments (according to EN 61800-3) Environmental class 3C2,

3S2 (Air quality) Fitted with: Brake chopper

Control unit

PC connection

Additional PCB protection

DC link cho...

REQUEST PRICE, AVAILABILITY & TECHNICAL REVIEW

Send EATON - MOELLER / DG1-34031FB-C54C with the required quantity to info@electricaonline.com or use 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

Catalog-generated document. Product names, marks and specifications belong to their respective owners. Verify safety-critical, compatibility and certification requirements against the manufacturer documentation before purchase or installation.