

INDUSTRIAL COMPONENT DATA

DG1-35144FB-C21C 9703-6002-00P EATON ELECTRIC

Variable frequency drives 3-phase 575 V 144 EMC filters Intern..

Brand: EATON - MOELLER | Manufacturer Part Number: DG1-35144FB-C21C



Manufacturer	EATON - MOELLER
MPN / Reference	DG1-35144FB-C21C
Catalog number	9703600200P
Category	Frequency converter less than 1 kV
Minimum order	1 Pcs
Document ID	EO-F865CBB76A
Generated	2026-08-03

Product Overview

Variable frequency drives; 3-phase 575 V; 144; EMC filters; Internal braking transistor; degree of protection IP21
 DG1-35144FB-C21C

Variable frequency drive, 500 V AC, 3-phase, 144 A, 90 kW, IP21/NEMA1, Brake chopper, DC link choke

Variable frequency drive, Part group reference (e.g. DIL): DG1, Rated operational voltage: $U_e = 600 \text{ V AC}$, 3-phase, Output voltage with V_e : $U_2 = 600 \text{ V AC}$, 3-phase, Mains voltage (50/60Hz): $U_{LN} = 500 (-10\%) - 600 (+10\%) \text{ V}$, Rated operational current At 150% overload: $I_e = 144 \text{ A}$, Note: Rated operational current for a switching frequency of 1 - 6 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: $I_e = 208 \text{ A}$, 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 525 V, 50 Hz, Assigned motor rating 150 % Overload: $P = 90 \text{ kW}$, 110 % Overload: $P = 132 \text{ kW}$, 150 % Overload: $I_M = 129 \text{ A}$, 110 % Overload: $I_M = 184 \text{ A}$, Assigned motor rating Note: at 600 V, 50 Hz, Assigned motor rating 150 % Overload: $P = 110 \text{ kW}$, 110 % Overload: $P = 160 \text{ kW}$, 150 % Overload: $I_M = 137 \text{ A}$, 110 % Overload: $I_M = 197 \text{ A}$, Assigned motor rating Note: at 600 V, 60 Hz, Assigned motor rating 150 % Overload: $P = 150 \text{ HP}$, 110....

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 9703-6002-00P Model Code DG1-35144FB-C21C
EAN 4015081805907 Product Length/Depth 371 mm Product Height 1035 mm Product Width 486 mm Product Weight
117.4 kg Certifications IEC/EN 61800-3

IEC/EN61800-3

Safety requirements: IEC/EN 61800-5

UkrSEPRO

UL

UL File No.: E134360

Certified by UL for use in Canada

UL Category Control No.: NMMS, NMMS7

EAC

Specification for general requirements: IEC/EN 61800-2

UL508

CUL

C-Tick

RoHS, ISO 9001

CSA-C22.2 No. 274-13

CE

IEC/EN61800-5

UL report applies to both US and Canada 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 Externally accessible fan

Parameterization: Fieldbus

Parameterization: Keypad

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

Air volume capacity 679 m³/h Cable length 200 m, screened, maximum permissible, Motor feeder

C3 ≤ 10 m, Radio interference level, maximum motor cable length Degree of protection NEMA 1

IP21 Electromagnetic compatibility 1st and 2nd environments (according to EN 61800-3) Environmental class 3C2, 3S2 (Air quality) Fitted with: Control unit

Radio interference suppression filter

Breaking resistance

IGBT inverter

Brake chopper

PC connection

Internal DC link

Additional PCB protection

Multi-line graph...

REQUEST PRICE, AVAILABILITY & TECHNICAL REVIEW

Send EATON - MOELLER / DG1-35144FB-C21C 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

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