

Eaton DG1-34016FB-C21C

Catalog Number: DG1-34016FB-C21C

Eaton PowerXL DG1 variable frequency drive, 380-500V input 7.5 kW 10 Hp CT 3PH 50/60 Hz 16A output IP21/type 1 enclosure FR3 LCD display Internal EMC filter and DC choke EtherNet, RS-485



General specifications

| | |
|--|-----------------------|
| Product Name | Catalog Number |
| Eaton PowerXL DG1 variable frequency drive | DG1-34016FB-C21C |
| | UPC |
| | 786685878911 |
| Product Length/Depth | Product Height |
| 21 in | 14.3 in |
| Product Width | Product Weight |
| 10 in | 26.45 lb |
| Warranty | Compliances |
| Eaton Selling Policy 25-000 generally applies with some exceptions. Drive products come with a standard 24 months from date of shipment and 36 months with Eaton certified start up all inclusive coverage parts labor and travel. | C-Tick Compliant |
| | RoHS Compliant |
| | CE Marked |
| | GoST-R |
| | Certifications |
| | UL 508C |
| | EN 61800-5-1 |
| | EN 62061 |
| | IEC 61508 |
| | EN ISO 13849-1 |
| | EN 61800-3 |
| | cUL Listed |
| | UL Listed |

defaultTaxonomyAttributeLabel

Brake chopper

Brake chopper

Horsepower

10 hp

Phase

Three-phase in, three-phase out

Frequency rating

50-60 Hz

Frame size

3

Keypad

Included

Input voltage

400 V, 380-500 V(-15%, +10%)

Display

LCD graphical

Torque rating

CT

Communication

EtherNet, RS-485, BACnet MS/TP, Modbus TCP and RTU communication

Enclosure

IP21/type 1

Input output

400 Vac (380-500 Vac)

Protection

Internal EMC filter, DC choke

Output current - max

16 A

Software

Active energy control, quick start wizard

Number of slots

2 expansion slots

Material

Coated board

Resources

Application notes

Load balancing in multi motor applications

Operating at low temperatures

Real time clock and use of the timers

Dual Rating What exactly does that mean?

Starting, stopping and operation

DG1 in pump and fan applications

PID controller

Motor data and V/f curves

Connecting drives to generator supplies

Analog I/Os

Digital I/Os

Torque control

Smoke Mode and fire mode

Electromagnetic compatibility (EMC)

Catalogs

Data sheet

Product Range Catalog Drives Engineering

Eaton's Volume 6—Solid-State Motor Control

Drawings

DG1_FB_(FR2-UL) 2D Drawing Xchange

DG1_FB_(FR2-UL) AutoCAD 2D Footprint (mm)

DG1_FB_(FR2-UL) 3D Model Xchange

DG1_FB_(FR2-UL) 3D Inventor

DG1_FB_(FR2-UL) AutoCAD 2D Footprint

Installation instructions

PowerXL DG1 Series VFD Installation Manual

PowerXL DG1 Series VFD Application Manual

Multimedia

PowerXL DG1 Variable Frequency Drive - Setup via WebUI

Power XL General Purpose Drives

Specifications and datasheets

Eaton Specification Sheet - DG1-34016FB-C21C

Power consumption

7.5 kW

Electromagnetic compatibility filter

EMC Filter

Internal DC choke

Yes

Conformal coated boards

Yes

User interface

Graphical Keypad

High overload (CT) amps

16 A

High overload (CT) kW

7.5 kW

High overload (CT) hp

10 hp

Low overload (VT) amps

23 A

Low overload (VT) kW

11 kW

Low overload (VT) hp

15 hp

Input voltage range

380 - 500 V

Input frequency range

50 - 60 Hz

Output frequency range

0 - 400 Hz

Max overload

110% for 1 minute

Recommended fuse size

30

Communications onboard

EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet
MS/TP

Motor control modes

Frequency, Speed, Open-loop speed, Open-loop torque

Motor type

Inductio, PM (IPM & SPM)



Eaton Corporation plc
Eaton House
30 Pembroke Road
Dublin 4, Ireland
Eaton.com

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