Product specifications

Eaton DG1-35010FB-C21C



Catalog Number: DG1-35010FB-C21C

Eaton PowerXL DG1 variable frequency drive, 525-600V input 5.5 kW 7.5 Hp CT 3PH 50/60 Hz 10A output IP21/type 1 FR2 LCD Internal EMC filter and DC choke EtherNet, RS-485, BACnet MS/TP, Modbus TCP and RTU ports 2 exp slots Brake chopper

General specifications

Product Name
Eaton PowerXL DG1 variable frequency drive

Catalog Number
DG1-35010FB-C21C

UPC
786685975139

Product Length/Depth
17 in

Product Height
14 in

Product Width
10.25 in

Product Weight
27 lb

Warranty
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.

Compliances
C-Tick Compliant
CE Marked
RoHS Compliant
GoST-R

Certifications
cUL Listed
UL Listed
UL 508C
EN ISO 13849-1
EN 62061
IEC 61508

Powering Business Worldwide

Product specifications

Max overload

110% for 1 minute

Protection filtering

Internal EMC filter and DC choke

High overload (CT) amps

10 A

Phase

Three-phase in, three-phase out

Motor control modes

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

Internal DC choke

Yes

Conformal coated boards

Yes

Low overload (VT) kW

7.5 Kw

Enclosure

IP21/type 1

Number of slots

2 expansion slots

Communications onboard

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

Motor type

Inductio, PM (IPM & SPM)

Electromagnetic compatibility filter

EMC Filter

User interface

Graphical Keypad

Brake chopper

Brake chopper

Power consumption

5.5 kW

High overload (CT) kW

5.5 kW

Resources

Application notes

Connecting drives to generator supplies

Load balancing in multi motor applications

Motor data and V/f curves

Analog I/Os

PID controller

Real time clock and use of the timers

DG1 in pump and fan applications

Operating at low temperatures

Smoke Mode and fire mode

Torque control

Digital I/Os

Electromagnetic compatibility (EMC)

Starting, stopping and operation

Dual Rating What exactly does that mean?

Catalogs

Product Datasheet - DG1-35010FB-C21C

Product Range Catalog Drives Engineering

Specifications and datasheets

Eaton Specification Sheet - DG1-35010FB-C21C

Horsepower

7.50 hp

Frequency rating

50-60 Hz

Protection

Internal EMC filter, DC choke

Communication

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

Special features

Coated boards

Input voltage

575 V, 525-600 V(-15%, +10%)

Material

Coated board

Low overload (VT) hp

10 hp

Output current - max

10 A

Low overload (VT) amps

13.5 A

High overload (CT) hp

7.5 hp

Frame size

2

Output frequency range

0 - 400 Hz

Input voltage range

525 - 600 V

Recommended fuse size

16

Keypad

Included

Input frequency range

50 - 60 Hz

Software

Active energy control, quick start wizard

Torque rating

CT

Display

LCD graphical

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