Product specifications

Eaton DG1-35100FN-C21C



Catalog Number: DG1-35100FN-C21C

Eaton PowerXL DG1 variable frequency drive, 525-600V input 75 kW 100 Hp CT 3PH 50/60 Hz 100A output IP21/type 1 enclosure FR6 LCD Internal EMC filter and DC choke EtherNet, RS-485, BACnet MS/TP, Modbus TCP and RTU ports 2 exp slots

General specifications

Product Name
Eaton PowerXL DG1 variable frequency drive

Catalog Number
DG1-35100FN-C21C

UPC
786685975443

Product Length/Depth
14.96 in

Product Height
38.19 in

Product Width
14.96 in

Product Weight
172 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
RoHS Compliant
CE Marked
C-Tick 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

100 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

90 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

No brake chopper

Power consumption

75 kW

High overload (CT) kW

75 kW

Resources

Application notes

DG1 in pump and fan applications

Real time clock and use of the timers

Motor data and V/f curves

PID controller

Connecting drives to generator supplies

Operating at low temperatures

Starting, stopping and operation

Dual Rating What exactly does that mean?

Load balancing in multi motor applications

Analog I/Os

Electromagnetic compatibility (EMC)

Torque control

Smoke Mode and fire mode

Digital I/Os

Catalogs

Product Datasheet - DG1-35100FN-C21C

Product Range Catalog Drives Engineering

Specifications and datasheets

Eaton Specification Sheet - DG1-35100FN-C21C

Horsepower

100 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

125 hp

Output current - max

100 A

Low overload (VT) amps

125 A

High overload (CT) hp

100 hp

Frame size

6

Output frequency range

0 - 400 Hz

Input voltage range

525 - 600 V

Recommended fuse size

160

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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