Product specifications

Eaton DG1-34205FB-C21C

Catalog Number: DG1-34205FB-C21C

Eaton PowerXL DG1 variable frequency drive, 380-500V input 110 kW 150 Hp CT 3PH 50/60 Hz 205A output IP21/type 1 FR6 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
DG1-34205FB-C21C

UPC
786680199790

Product Length/Depth
21.88 in

Product Height
45.27 in

Product Width
23.62 in

Product Weight
281.3 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
GoST-R
C-Tick Compliant
CE Marked
RoHS Compliant

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

Product specifications

Max overload

110% for 1 minute

Protection filtering

EMI and DC Choke

High overload (CT) amps

205 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

132 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

110 kW

High overload (CT) kW

110 kW

Resources

Application notes

PID controller

Motor data and V/f curves

Real time clock and use of the timers

Operating at low temperatures

Torque control

DG1 in pump and fan applications

Smoke Mode and fire mode

Starting, stopping and operation

Dual Rating What exactly does that mean?

Connecting drives to generator supplies

Analog I/Os

Electromagnetic compatibility (EMC)

Load balancing in multi motor applications

Digital I/Os

Catalogs

Product Range Catalog Drives Engineering

Product Datasheet - DG1-34205FB-C21C

Specifications and datasheets

Eaton Specification Sheet - DG1-34205FB-C21C

Horsepower

150 hp

NEMA rating

NEMA 1

Frequency rating

50-60 Hz

Voltage rating

480 V

Protection

Internal EMC filter, DC choke

Communication

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

Input voltage

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

Material

Coated board

Low overload (VT) hp

240 hp

Output current - max

205 A

Low overload (VT) amps

261 A

High overload (CT) hp

150 hp

Frame size

6

Output frequency range

0 - 400 Hz

Input voltage range

380 - 500 V

Recommended fuse size

400

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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