Product specifications

Eaton DG1-34245FN-C21C

Catalog Number: DG1-34245FN-C21C

Eaton PowerXL DG1 series variable frequency drive, 380-500V input 150 kW 200 Hp CT 3PH 50/60 Hz 245A output IP21/type 1 enclosure FR6 LCD display Internal EMC filter and DC choke EtherNet, RS-485, BACnet MS/TP

General specifications

Product Name
Eaton PowerXL DG1 variable frequency drive

Catalog Number
DG1-34245FN-C21C

UPC
786680199769

Product Length/Depth
45 in

Product Height
21 in

Product Width
23.6 in

Product Weight
286 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
245 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
160 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

Power consumption
150 kW

High overload (CT) kW
132 kW

Horsepower
200 hp

Resources

Application notes
Real time clock and use of the timers

Electromagnetic compatibility (EMC)

Load balancing in multi motor applications

Motor data and V/f curves

Torque control

Smoke Mode and fire mode

Connecting drives to generator supplies

Operating at low temperatures

PID controller

Digital I/Os

Analog I/Os

Starting, stopping and operation

Dual Rating What exactly does that mean?

DG1 in pump and fan applications

Catalogs
Product Range Catalog Drives Engineering

Product Datasheet - DG1-34245FN-C21C

Specifications and datasheets
Eaton Specification Sheet - DG1-34245FN-C21C

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

302 hp

Output current - max

245 A

Low overload (VT) amps

310 A

High overload (CT) hp

200 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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