Product specifications

Eaton DG1-34205FN-C54C

Catalog Number: DG1-34205FN-C54C

Eaton PowerXL DG1 variable frequency drive, 380-500V input 110 kW 150 Hp CT 3PH 50/60 Hz 205A output IP54/type 12 FR6 LCD display Internal EMC filter and DC choke EtherNet, RS-485, BACnet MS/TP, Modbus TCP and RTU ports 2 expansion slots



General specifications

Product Name
Eaton PowerXL DG1 variable frequency drive

Catalog Number
DG1-34205FN-C54C

UPC
786680199783

Product Length/Depth
45 in

Product Height
21 in

Product Width
24 in

Product Weight
285 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

Powering Business Worldwide

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
IP54/type 12

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
110 kW

High overload (CT) kW
110 kW

Horsepower
150 hp

Resources

Application notes
Analog I/Os

Load balancing in multi motor applications

Motor data and V/f curves

DG1 in pump and fan applications

Electromagnetic compatibility (EMC)

Real time clock and use of the timers

PID controller

Digital I/Os

Starting, stopping and operation

Dual Rating What exactly does that mean?

Operating at low temperatures

Connecting drives to generator supplies

Smoke Mode and fire mode

Torque control

Catalogs
Product Datasheet - DG1-34205FN-C54C

Product Range Catalog Drives Engineering

Specifications and datasheets
Eaton Specification Sheet - DG1-34205FN-C54C

NEMA rating

NEMA 12

Frequency rating

50-60 Hz

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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