Product specifications

Eaton DG1-34590FN-C00C

Catalog Number: DG1-34590FN-C00C

Eaton PowerXL DG1 variable frequency drive460V FR8 IP00 315KW 500HP AMR

General specifications

Product Name
Eaton PowerXL DG1 variable frequency drive

Catalog Number
DG1-34590FN-C00C

UPC
786687035381

Product Length/Depth
67 in

Product Height
30.75 in

Product Width
46.25 in

Product Weight
1032 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

Certifications
UL Listed
cUL Listed

Product specifications

Max overload
110% for 1 minute

Protection filtering
EMI and DC Choke

High overload (CT) amps
590 A

Phase
Three-phase input, three-phase output

Motor control modes
Frequency, Speed, Open-loop speed, Open-loop torque

Internal DC choke
Yes

Conformal coated boards
Yes

Low overload (VT) kW
355 kW

Enclosure
IP00

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
315 kW

High overload (CT) kW
315 kW

Horsepower
500 hp

Resources

Application notes
Electromagnetic compatibility (EMC)

PID controller

Smoke Mode and fire mode

Torque control

Analog I/Os

Digital I/Os

Load balancing in multi motor applications

Motor data and V/f curves

Connecting drives to generator supplies

Operating at low temperatures

Dual Rating What exactly does that mean?

Starting, stopping and operation

DG1 in pump and fan applications

Real time clock and use of the timers

Catalogs
Product Range Catalog Drives Engineering

Specifications and datasheets
Eaton Specification Sheet - DG1-34590FN-C00C

Operating Temperature

-10° to 50°C

Voltage rating

460 V

Protection

Internal EMC filter, DC choke

Communication

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

Material

Coated board

Low overload (VT) hp

500 hp

Output current - max

590 A

Low overload (VT) amps

650 A

High overload (CT) hp

500 hp

Frame size

8

Output frequency range

0 - 400 Hz

Input voltage range

380 - 500 V

Recommended fuse size

2 x 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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