Product specifications

Eaton DG1-34061FN-C54C

Catalog Number: DG1-34061FN-C54C

Eaton PowerXL DG1 variable frequency drive, 380-500V input 30 kW 40 Hp CT 3PH 50/60 Hz 61A output IP54/type 12 FR5 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
DG1-34061FN-C54C

UPC
786685887876

Product Length/Depth
28 in

Product Height
16.8 in

Product Width
15 in

Product Weight
80 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

High overload (CT) amps
61 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
37 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
30 kW

High overload (CT) kW
30 kW

Horsepower
40 hp

Frequency rating
50-60 Hz

Resources

Application notes
Operating at low temperatures

PID controller

Electromagnetic compatibility (EMC)

Torque control

Smoke Mode and fire mode

Dual Rating What exactly does that mean?

Load balancing in multi motor applications

Real time clock and use of the timers

Motor data and V/f curves

DG1 in pump and fan applications

Starting, stopping and operation

Connecting drives to generator supplies

Analog I/Os

Digital I/Os

Catalogs
Product Range Catalog Drives Engineering

Eaton's Volume 6—Solid-State Motor Control

Product Datasheet - DG1-34061FN-C54C

Drawings
DG1_FN_(FR4-UL) 3D Inventor

DG1_FN_(FR4-UL) AutoCAD 2D Footprint

DG1_FN_(FR4-UL) AutoCAD 2D Footprint (mm)

DG1_FN_(FR4-UL) 3D Model Xchange

DG1_FN_(FR4-UL) 2D Drawing Xchange

DG1_FN_(FR4-UL) 2D PDF

Installation instructions
PowerXL DG1 Series VFD Application Manual

PowerXL DG1 Series VFD Installation Manual

Specifications and datasheets
Eaton Specification Sheet - DG1-34061FN-C54C

Warranty guides
Selling Policy 25-000 - Distribution and Control Products and Services

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

50 hp

Output current - max

61 A

Low overload (VT) amps

72 A

High overload (CT) hp

40 hp

Frame size

5

Output frequency range

0 - 400 Hz

Input voltage range

380 - 500 V

Recommended fuse size

100

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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