

Eaton DG1-34061FN-C21C

Catalog Number: DG1-34061FN-C21C

Eaton PowerXL DG1 variable frequency drive, 61A 400V input
Three-phase mains connection/three-phase motor connection
Internal EMC filter Graphic LCD display and keypad , NEMA 1



General specifications

Product Name

Eaton PowerXL DG1 variable frequency
drive

Catalog Number

DG1-34061FN-C21C

UPC

786685878812

Product Length/Depth

15 in

Product Height

18.5 in

Product Width

28 in

Product Weight

83 lb

Warranty

Eaton Selling Policy 25-000, one (1) year RoHS Compliant
from the date of installation of the
Product or eighteen (18) months from the C-Tick Compliant
date of shipment of the Product,
whichever occurs first.

Compliances

CE Marked

Certifications

UL cULCE IEC/EN 61800-5-1 IEC
61800-5-2 UL 508C IEC 61508 EN
62061 EN ISO 13849-1



Powering Business Worldwide

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Horsepower

20 hp

Phase

Three-phase main, three-phase motor

Protection filtering

Internal EMC filter

Serial interface

RS-485 CANopen

Type

AF drive

Frequency rating

50-60 Hz

Frame size

4

Input voltage

400 V

Display

LCD graphical

Torque rating

50 hp constant torque

NEMA rating

NEMA 1, IP21

Output current - max

61 A

Software

Quick start wizard advanced PS tool

Number of slots

2 expansion slots

Power consumption

1500 W

Electromagnetic compatibility filter

EMC Filter

Internal DC choke

Yes

Conformal coated boards

Resources

Application notes

Real time clock and use of the timers

Dual Rating What exactly does that mean?

Starting, stopping and operation

Smoke Mode and fire mode

Torque control

Operating at low temperatures

Analog I/Os

Motor data and V/f curves

DG1 in pump and fan applications

Connecting drives to generator supplies

Electromagnetic compatibility (EMC)

PID controller

Load balancing in multi motor applications

Digital I/Os

Catalogs

Eaton's Volume 6—Solid-State Motor Control

Data sheet

Product Range Catalog Drives Engineering

Drawings

DG1_FN_(FR4-UL) AutoCAD 2D Footprint

DG1_FN_(FR4-UL) 2D PDF

DG1_FN_(FR4-UL) 3D Inventor

DG1_FN_(FR4-UL) 3D Model Xchange

DG1_FN_(FR4-UL) 2D Drawing Xchange

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

Installation instructions

PowerXL DG1 Series VFD Application Manual

PowerXL DG1 Series VFD Installation Manual

Multimedia

Power XL General Purpose Drives

PowerXL DG1 Variable Frequency Drive - Setup via WebUI

Specifications and datasheets

Eaton Specification Sheet - DG1-34061FN-C21C

Yes

User interface

Graphical Keypad

High overload (CT) amps

61 A

High overload (CT) kW

30 kW

High overload (CT) hp

40 hp

Low overload (VT) amps

72 A

Low overload (VT) kW

37 kW

Low overload (VT) hp

50 hp

Input voltage range

380 - 500 V

Input frequency range

50 - 60 Hz

Output frequency range

0 - 400 Hz

Max overload

110% for 1 minute

Recommended fuse size

100

Communications onboard

EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet
MS/TP

Motor control modes

Frequency, Speed, Open-loop speed, Open-loop torque

Motor type

Inductio, PM (IPM & SPM)



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