

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

defaultTaxonomyAttributeLabel

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

[Electromagnetic compatibility \(EMC\)](#)

[Analog I/Os](#)

[Motor data and V/f curves](#)

[Connecting drives to generator supplies](#)

[DG1 in pump and fan applications](#)

[Smoke Mode and fire mode](#)

[Torque control](#)

[Digital I/Os](#)

[Load balancing in multi motor applications](#)

[PID controller](#)

[Real time clock and use of the timers](#)

[Dual Rating What exactly does that mean?](#)

[Starting, stopping and operation](#)

[Operating at low temperatures](#)

Catalogs

[Eaton's Volume 6—Solid-State Motor Control](#)

[Product Range Catalog Drives Engineering](#)

[Data sheet](#)

Drawings

[DG1_FN_\(FR4-UL\) 3D Inventor](#)

[DG1_FN_\(FR4-UL\) 2D PDF](#)

[DG1_FN_\(FR4-UL\) AutoCAD 2D Footprint \(mm\)](#)

[DG1_FN_\(FR4-UL\) AutoCAD 2D Footprint](#)

[DG1_FN_\(FR4-UL\) 3D Model Xchange](#)

[DG1_FN_\(FR4-UL\) 2D Drawing Xchange](#)

Installation instructions

[PowerXL DG1 Series VFD Application Manual](#)

[PowerXL DG1 Series VFD Installation Manual](#)

Multimedia

[PowerXL DG1 Variable Frequency Drive - Setup via WebUI](#)

[Power XL General Purpose Drives](#)

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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30 Pembroke Road
Dublin 4, Ireland
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