

Eaton DG1-34072FN-C21C

Catalog Number: DG1-34072FN-C21C

Eaton PowerXL DG1 variable frequency drive, 380-500V input 37 kW 50 Hp CT 3PH 50/60 Hz 72A output IP21/type 1 enclosure FR5 LCD Internal EMC filter and DC choke EtherNet, RS-485, BACnet MS/TP, Modbus TCP and RTU ports 2 exp slots



General specifications

Product Name	Catalog Number
Eaton PowerXL DG1 variable frequency drive	DG1-34072FN-C21C
	UPC
	786685878867
Product Length/Depth	Product Height
27.75 in	16.25 in
Product Width	Product Weight
14.5 in	80 lb
Warranty	Compliances
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.	C-Tick Compliant RoHS Compliant CE Marked GoST-R
	Certifications
	EN 61800-5-1 UL 508C IEC 61508 EN 62061 EN ISO 13849-1 EN 61800-3 cUL Listed UL Listed

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Brake chopper

No brake chopper

Horsepower

50 hp

Phase

Three-phase in, three-phase out

Frequency rating

50-60 Hz

Frame size

5

Keypad

Included

Input voltage

400 V, 380-500 V(-15%, +10%)

Display

LCD graphical

Torque rating

CT

Communication

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

Enclosure

IP21/type 1

Input output

400 Vac (380-500 Vac)

Protection

Internal EMC filter, DC choke

Output current - max

72 A

Software

Active energy control, quick start wizard

Number of slots

2 expansion slots

Material

Coated board

Resources

Application notes

Motor data and V/f curves

Load balancing in multi motor applications

Real time clock and use of the timers

DG1 in pump and fan applications

Operating at low temperatures

Analog I/Os

Connecting drives to generator supplies

Torque control

Smoke Mode and fire mode

PID controller

Electromagnetic compatibility (EMC)

Digital I/Os

Dual Rating What exactly does that mean?

Starting, stopping and operation

Catalogs

Data sheet

Product Range Catalog Drives Engineering

Eaton's Volume 6—Solid-State Motor Control

Drawings

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

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

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 - DG1-34072FN-C21C

Power consumption

37 kW

Electromagnetic compatibility filter

EMC Filter

Internal DC choke

Yes

Conformal coated boards

Yes

User interface

Graphical Keypad

High overload (CT) amps

72 A

High overload (CT) kW

37 kW

High overload (CT) hp

50 hp

Low overload (VT) amps

87 A

Low overload (VT) kW

45 kW

Low overload (VT) hp

60 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

110

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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