

Eaton DG1-34170FN-C21C

Catalog Number: DG1-34170FN-C21C

Eaton PowerXL DG1 variable frequency drive, 380-500V input 90 kW 125 Hp CT 3PH 50/60 Hz 170A output IP21/type 1 enclosure FR6 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	DG1-34170FN-C21C
	UPC
	786685878850
Product Length/Depth	Product Height
44 in	20 in
Product Width	Product Weight
18 in	186 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
	UL 508C EN 61800-5-1 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

125 hp

Phase

Three-phase in, three-phase out

Frequency rating

50-60 Hz

Frame size

6

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

460 Vac (380-500 Vac, -15%, +10%)

Protection

Internal EMC filter, DC choke

Output current - max

170 A

Software

Active energy control, quick start wizard

Number of slots

2 expansion slots

Material

Coated board

Resources

Application notes

Load balancing in multi motor applications

Operating at low temperatures

Connecting drives to generator supplies

DG1 in pump and fan applications

Real time clock and use of the timers

Starting, stopping and operation

Dual Rating What exactly does that mean?

Analog I/Os

Digital I/Os

PID controller

Torque control

Smoke Mode and fire mode

Motor data and V/f curves

Electromagnetic compatibility (EMC)

Catalogs

Product Range Catalog Drives Engineering

Eaton's Volume 6—Solid-State Motor Control

Data sheet

Drawings

DG1_FN_(FR5-UL) AutoCAD 2D Footprint (mm)

DG1_FN_(FR5-UL) AutoCAD 2D Footprint

DG1_FN_(FR5-UL) 2D Drawing Xchange

DG1_FN_(FR5-UL) 2D PDF

DG1_FN_(FR5-UL) 3D Inventor

DG1_FN_(FR5-UL) 3D Model Xchange

Installation instructions

PowerXL DG1 Series VFD Installation Manual

PowerXL DG1 Series VFD Application Manual

Multimedia

Power XL General Purpose Drives

PowerXL DG1 Variable Frequency Drive - Setup via WebUI

Specifications and datasheets

Eaton Specification Sheet - DG1-34170FN-C21C

Warranty guides

Power consumption

90 kW

Electromagnetic compatibility filter

EMC Filter

Internal DC choke

Yes

Conformal coated boards

Yes

User interface

Graphical Keypad

High overload (CT) amps

170 A

High overload (CT) kW

90 kW

High overload (CT) hp

125 hp

Low overload (VT) amps

205 A

Low overload (VT) kW

110 kW

Low overload (VT) hp

150 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

250

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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