

# Eaton DG1-34087FN-C21C

Catalog Number: DG1-34087FN-C21C

Eaton PowerXL DG1 variable frequency drive, 380-500V input 45 kW 60 Hp CT 3PH 50/60 Hz 87A 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

<b>Product Name</b>	<b>Catalog Number</b>
Eaton PowerXL DG1 variable frequency drive	DG1-34087FN-C21C
	<b>UPC</b>
	786685878874
<b>Product Length/Depth</b>	<b>Product Height</b>
27.5 in	15 in
<b>Product Width</b>	<b>Product Weight</b>
17 in	84 lb
<b>Warranty</b>	<b>Compliances</b>
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.	RoHS Compliant C-Tick Compliant CE Marked GoST-R
	<b>Certifications</b>
	EN 61800-5-1 UL 508C EN 61800-3 IEC 61508 EN ISO 13849-1 EN 62061 cUL Listed UL Listed

## defaultTaxonomyAttributeLabel

### Brake chopper

No brake chopper

### Horsepower

60 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

87 A

### Software

Active energy control, quick start wizard

### Number of slots

2 expansion slots

### Material

Coated board

## Resources

### Application notes

DG1 in pump and fan applications

Torque control

Smoke Mode and fire mode

Connecting drives to generator supplies

Electromagnetic compatibility (EMC)

Load balancing in multi motor applications

Starting, stopping and operation

Dual Rating What exactly does that mean?

Motor data and V/f curves

Analog I/Os

Digital I/Os

PID controller

Real time clock and use of the timers

Operating at low temperatures

### Catalogs

Eaton's Volume 6—Solid-State Motor Control

Data sheet

Product Range Catalog Drives Engineering

### Drawings

DG1\_FN\_(FR4-UL) 3D Model Xchange

DG1\_FN\_(FR4-UL) AutoCAD 2D Footprint

DG1\_FN\_(FR4-UL) 2D Drawing Xchange

DG1\_FN\_(FR4-UL) 2D PDF

DG1\_FN\_(FR4-UL) 3D Inventor

DG1\_FN\_(FR4-UL) AutoCAD 2D Footprint (mm)

### Installation instructions

PowerXL DG1 Series VFD Installation Manual

PowerXL DG1 Series VFD Application Manual

### Multimedia

PowerXL DG1 Variable Frequency Drive - Setup via WebUI

Power XL General Purpose Drives

### Specifications and datasheets

Eaton Specification Sheet - DG1-34087FN-C21C

#### Power consumption

45 kW

#### Electromagnetic compatibility filter

EMC Filter

#### Internal DC choke

Yes

#### Conformal coated boards

Yes

#### User interface

Graphical Keypad

#### High overload (CT) amps

87 A

#### High overload (CT) kW

45 kW

#### High overload (CT) hp

60 hp

#### Low overload (VT) amps

105 A

#### Low overload (VT) kW

55 kW

#### Low overload (VT) hp

75 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

125

#### 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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