

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



| | |
|--|-----------------------|
| Product Name | Catalog Number |
| Eaton PowerXL DG1 variable frequency drive | DG1-34087FN-C21C |
| | UPC |
| | 786685878874 |

| | |
|-----------------------------|-----------------------|
| Product Length/Depth | Product Height |
| 27.5 in | 15 in |

| | |
|----------------------|-----------------------|
| Product Width | Product Weight |
| 17 in | 84 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. | RoHS Compliant C-Tick Compliant CE Marked GoST-R |

| |
|---|
| Certifications |
| 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

[Operating at low temperatures](#)

[Starting, stopping and operation](#)

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

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

[Digital I/Os](#)

[PID controller](#)

[Load balancing in multi motor applications](#)

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

[Analog I/Os](#)

[Smoke Mode and fire mode](#)

[Torque control](#)

[DG1 in pump and fan applications](#)

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

[Connecting drives to generator supplies](#)

Catalogs

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

[Product Range Catalog Drives Engineering](#)

[Data sheet](#)

Drawings

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

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

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

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

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

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

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 - DG1-34087FN-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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