

# Eaton DG1-34012FB-C21C

Catalog Number: DG1-34012FB-C21C

Eaton PowerXL DG1 variable frequency drive, 208-240V input. 5.5 kW, 7.5 Hp CT, 3PH, 50/60 Hz, 12A output, IP21/type 1 enclosure, FR2, LCD display, Internal EMC filter and DC choke EtherNet, RS-485

## General specifications

<b>Product Name</b>	<b>Catalog Number</b>
Eaton PowerXL DG1 variable frequency drive	DG1-34012FB-C21C
	<b>UPC</b>
	786685878799

<b>Product Length/Depth</b>	<b>Product Height</b>
21.34 in	14.17 in

<b>Product Width</b>	<b>Product Weight</b>
10.24 in	26.46 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.	C-Tick Compliant RoHS Compliant CE Marked GoST-R

<b>Certifications</b>
EN 61800-5-1 UL 508C EN ISO 13849-1 EN 62061 IEC 61508 EN 61800-3 cUL Listed UL Listed



## Product specifications

### Max overload

110% for 1 minute

### High overload (CT) amps

12 A

### Phase

Three-phase in, three-phase out

### Motor control modes

Frequency, Speed, Open-loop speed, Open-loop torque

### Internal DC choke

Yes

### Conformal coated boards

Yes

### Low overload (VT) kW

7.5 Kw

### Enclosure

IP21/type 1

### Number of slots

2 expansion slots

### Communications onboard

EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP

### Motor type

Inductio, PM (IPM & SPM)

### Electromagnetic compatibility filter

EMC Filter

### User interface

Graphical Keypad

### Brake chopper

Brake chopper

### Input output

400 Vac (380-500 Vac)

### Power consumption

5.5 kW

### High overload (CT) kW

5.5 kW

## Resources

### Application notes

[Connecting drives to generator supplies](#)

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

[Load balancing in multi motor applications](#)

[DG1 in pump and fan applications](#)

[Smoke Mode and fire mode](#)

[Torque control](#)

[Digital I/Os](#)

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

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

[Starting, stopping and operation](#)

[PID controller](#)

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

[Analog I/Os](#)

[Operating at low temperatures](#)

### Catalogs

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

[Data sheet](#)

[Product Range Catalog Drives Engineering](#)

### Drawings

[DG1\\_FB\\_\(FR2-UL\) 2D Drawing Xchange](#)

[DG1\\_FB\\_\(FR2-UL\) 3D Model Xchange](#)

[DG1\\_FB\\_\(FR2-UL\) 3D Inventor](#)

[DG1\\_FB\\_\(FR2-UL\) AutoCAD 2D Footprint \(mm\)](#)

[DG1\\_FB\\_\(FR2-UL\) AutoCAD 2D Footprint](#)

### 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 - DG1-34012FB-C21C](#)

#### Horsepower

7.50 hp

#### Frequency rating

50-60 Hz

#### Protection

Internal EMC filter, DC choke

#### Communication

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

#### Input voltage

230 V, 208-240 V(-15%, +10%)

#### Material

Coated board

#### Low overload (VT) hp

10 hp

#### Output current - max

12 A

#### Low overload (VT) amps

16 A

#### High overload (CT) hp

7.5 hp

#### Frame size

2

#### Output frequency range

0 - 400 Hz

#### Input voltage range

380 - 500 V

#### Recommended fuse size

20

#### Keypad

Included

#### Input frequency range

50 - 60 Hz

#### Software

Active energy control, quick start wizard

#### Torque rating

CT

Display

LCD graphical

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