

# Eaton DG1-34046FB-C21C

Catalog Number: DG1-34046FB-C21C

Eaton PowerXL DG1 variable frequency drive, 380-500V input 22 kW 30 Hp CT 3PH 50/60 Hz 46A output IP21/type 1 FR4 LCD Internal EMC filter and DC choke EtherNet, RS-485, BACnet MS/TP, Modbus TCP and RTU ports 2 exp slots Brake chopper



## General specifications

<b>Product Name</b>	<b>Catalog Number</b>
Eaton PowerXL DG1 variable frequency drive	DG1-34046FB-C21C
	<b>UPC</b>
	786685878775
<b>Product Length/Depth</b>	<b>Product Height</b>
27.5 in	16 in
<b>Product Width</b>	<b>Product Weight</b>
11.5 in	51 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>
	UL 508C EN 61800-5-1 IEC 61508 EN 62061 EN ISO 13849-1 EN 61800-3 cUL Listed UL Listed

## defaultTaxonomyAttributeLabel

### Brake chopper

Brake chopper

### Horsepower

30 hp

### Phase

Three-phase in, three-phase out

### Frequency rating

50-60 Hz

### Frame size

4

### 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

46 A

### Software

Active energy control, quick start wizard

### Number of slots

2 expansion slots

### Material

Coated board

## Resources

### Application notes

Real time clock and use of the timers

Operating at low temperatures

DG1 in pump and fan applications

Digital I/Os

Load balancing in multi motor applications

Electromagnetic compatibility (EMC)

Dual Rating What exactly does that mean?

Starting, stopping and operation

Torque control

Smoke Mode and fire mode

Analog I/Os

Connecting drives to generator supplies

Motor data and V/f curves

PID controller

### Catalogs

Eaton's Volume 6—Solid-State Motor Control

Data sheet

Product Range Catalog Drives Engineering

### Drawings

DG1\_FB\_(FR3-UL) 2D Drawing Xchange

DG1\_FB\_(FR3-UL) 2D PDF

DG1\_FB\_(FR3-UL) 3D Inventor

DG1\_FB\_(FR3-UL) AutoCAD 2D Footprint

DG1\_FB\_(FR3-UL) AutoCAD 2D Footprint (mm)

DG1\_FB\_(FR3-UL) 3D Model Xchange

### 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 - DG1-34046FB-C21C

#### Power consumption

22 kW

#### Electromagnetic compatibility filter

EMC Filter

#### Internal DC choke

Yes

#### Conformal coated boards

Yes

#### User interface

Graphical Keypad

#### High overload (CT) amps

46 A

#### High overload (CT) kW

22 kW

#### High overload (CT) hp

30 hp

#### Low overload (VT) amps

61 A

#### Low overload (VT) kW

30 kW

#### Low overload (VT) hp

40 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

80

#### 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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