

# Eaton DG1-32048FB-C21C

Catalog Number: DG1-32048FB-C21C

Eaton PowerXL DG1 variable frequency drive, 208-240V input 11 kW 15 Hp CT 3PH 50/60 Hz 48A output IP21/type 1 enclosure FR3 LCD display Internal EMC filter and DC choke EtherNet



## General specifications

<b>Product Name</b>	<b>Catalog Number</b>
Eaton PowerXL DG1 variable frequency drive	DG1-32048FB-C21C
	UPC
	786685886091
<b>Product Length/Depth</b>	<b>Product Height</b>
27 in	16 in
<b>Product Width</b>	<b>Product Weight</b>
11.5 in	53 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
	GoST-R
	CE Marked
	C-Tick Compliant
	<b>Certifications</b>
	UL Listed
	cUL Listed
	UL 508C
	EN 62061
	EN ISO 13849-1
	IEC 61508

## defaultTaxonomyAttributeLabel

### Brake chopper

Brake chopper

### Horsepower

15 hp

### Phase

Three-phase in, three-phase out

### Protection filtering

EMI, RFI Filter

### Special features

Coated board

### Type

Power XL

### Frequency rating

50-60 Hz

### Frame size

3

### Keypad

Included

### Input voltage

230 V, 208-240 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

3 inputs, 3 outputs

### Maximum Current

48/61 A

### Rating

IP21

## Resources

### Application notes

Real time clock and use of the timers

Analog I/Os

Smoke Mode and fire mode

Torque control

Operating at low temperatures

Load balancing in multi motor applications

Connecting drives to generator supplies

Dual Rating What exactly does that mean?

Starting, stopping and operation

Digital I/Os

DG1 in pump and fan applications

Electromagnetic compatibility (EMC)

Motor data and V/f curves

PID controller

### Catalogs

Product Range Catalog Drives Engineering

Datasheet

Eaton's Volume 6—Solid-State Motor Control

### Drawings

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

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

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

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

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

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

### 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 - DG1-32048FB-C21C

## Protection

Internal EMC filter, DC choke

## Output current - max

48 A

## Software

Active energy control, quick start wizard

## Number of slots

2 expansion slots

## Material

Coated board

## Power consumption

11 kW

## Electromagnetic compatibility filter

EMC Filter

## Internal DC choke

Yes

## Conformal coated boards

Yes

## User interface

Graphical Keypad

## High overload (CT) amps

48 A

## High overload (CT) kW

11 kW

## High overload (CT) hp

15 hp

## Low overload (VT) amps

61 A

## Low overload (VT) kW

15 kW

## Low overload (VT) hp

20 hp

## Input voltage range

208 - 240 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)



Eaton Corporation plc  
Eaton House  
30 Pembroke Road  
Dublin 4, Ireland  
Eaton.com  
© 2024 Eaton. All Rights Reserved.

Eaton is a registered trademark.

All other trademarks are  
property of their respective  
owners.



[Eaton.com/socialmedia](https://www.eaton.com/socialmedia)