

# Eaton DG1-32031FB-C21C

Catalog Number: DG1-32031FB-C21C

Eaton PowerXL DG1 variable frequency drive, 208-240V input 7.5 kW 10 Hp CT 3PH 50/60 Hz 31A output IP21/type 1 FR3 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	DG1-32031FB-C21C
	<b>UPC</b>
	786685886084
<b>Product Length/Depth</b>	<b>Product Height</b>
27 in	16 in
<b>Product Width</b>	<b>Product Weight</b>
12 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.	GoST-R C-Tick Compliant RoHS Compliant CE Marked
	<b>Certifications</b>
	cUL Listed UL 508C UL Listed EN ISO 13849-1 IEC 61508 EN 62061

## defaultTaxonomyAttributeLabel

### Brake chopper

Brake chopper

### Horsepower

10 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

31/48 A

### Rating

IP21

## Resources

### Application notes

Real time clock and use of the timers

PID controller

Analog I/Os

Connecting drives to generator supplies

Operating at low temperatures

Digital I/Os

Starting, stopping and operation

Dual Rating What exactly does that mean?

Motor data and V/f curves

Electromagnetic compatibility (EMC)

Load balancing in multi motor applications

DG1 in pump and fan applications

Torque control

Smoke Mode and fire mode

### Catalogs

Eaton's Volume 6—Solid-State Motor Control

Product Range Catalog Drives Engineering

Datasheet

### Drawings

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

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

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

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

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

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

### 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 - DG1-32031FB-C21C

## Protection

Internal EMC filter, DC choke

## Output current - max

31 A

## Software

Active energy control, quick start wizard

## Number of slots

2 expansion slots

## Material

Coated board

## Power consumption

7.5 kW

## Electromagnetic compatibility filter

EMC Filter

## Internal DC choke

Yes

## Conformal coated boards

Yes

## User interface

Graphical Keypad

## High overload (CT) amps

31 A

## High overload (CT) kW

7.5 kW

## High overload (CT) hp

10 hp

## Low overload (VT) amps

48 A

## Low overload (VT) kW

11 kW

## Low overload (VT) hp

15 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**

60

**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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