

# Eaton DG1-347D6FB-C21C

Catalog Number: DG1-347D6FB-C21C

Eaton PowerXL DG1 variable frequency drive, 208-240V input 3 kW 5 Hp CT 3PH 50/60 Hz 7.6A output IP21/type 1 FR2 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	DG1-347D6FB-C21C
	<b>UPC</b>
	786685878751
<b>Product Length/Depth</b>	<b>Product Height</b>
17.5 in	13 in
<b>Product Width</b>	<b>Product Weight</b>
9.5 in	16 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 62061 EN ISO 13849-1 IEC 61508 EN 61800-3 cUL Listed UL Listed

## defaultTaxonomyAttributeLabel

### Brake chopper

Brake chopper

### Horsepower

5 hp

### Phase

Three-phase in, three-phase out

### Frequency rating

50-60 Hz

### Frame size

2

### 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

460 Vac (380-500 Vac, -15%, +10%)

### Protection

Internal EMC filter, DC choke

### Output current - max

7.6 A

### Software

Active energy control, quick start wizard

### Number of slots

2 expansion slots

### Material

Coated board

## Resources

### Application notes

Load balancing in multi motor applications

Digital I/Os

Starting, stopping and operation

Dual Rating What exactly does that mean?

Electromagnetic compatibility (EMC)

Smoke Mode and fire mode

Torque control

Analog I/Os

PID controller

Connecting drives to generator supplies

DG1 in pump and fan applications

Real time clock and use of the timers

Operating at low temperatures

Motor data and V/f curves

### Catalogs

Data sheet

Eaton's Volume 6—Solid-State Motor Control

Product Range Catalog Drives Engineering

### Drawings

DG1\_FB\_(FR1-UL) 2D PDF

DG1\_FB\_(FR1-UL) 3D Model Xchange

DG1\_FB\_(FR1-UL) 3D Inventor

DG1\_FB\_(FR1-UL) 2D Drawing Xchange

DG1\_FB\_(FR1-UL) AutoCAD 2D Footprint (mm)

DG1\_FB\_(FR1-UL) AutoCAD 2D Footprint

### Installation instructions

PowerXL DG1 Series VFD Installation Manual

PowerXL DG1 Series VFD Application Manual

### Multimedia

PowerXL DG1 Variable Frequency Drive - Setup via WebUI

Power XL General Purpose Drives

### Specifications and datasheets

Eaton Specification Sheet - DG1-347D6FB-C21C

#### Power consumption

3 kW

#### Electromagnetic compatibility filter

EMC Filter

#### Internal DC choke

Yes

#### Conformal coated boards

Yes

#### User interface

Graphical Keypad

#### High overload (CT) amps

7.6 A

#### High overload (CT) kW

3 kW

#### High overload (CT) hp

5 hp

#### Low overload (VT) amps

9 A

#### Low overload (VT) kW

4 kW

#### 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

15

#### 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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