

# Eaton DG1-347D6FB-C54C

Catalog Number: DG1-347D6FB-C54C

Eaton PowerXL DG1 variable frequency drive, 380-500V input 3 kW 5 Hp CT 3-ph 50/60 Hz 7.6A o/p IP54/type 12 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-C54C
	<b>UPC</b>
	786685887791
<b>Product Length/Depth</b>	<b>Product Height</b>
17.25 in	12.75 in
<b>Product Width</b>	<b>Product Weight</b>
9.25 in	16.48 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 CE Marked RoHS Compliant
	<b>Certifications</b>
	cUL Listed UL Listed UL 508C EN ISO 13849-1 EN 62061 IEC 61508

## 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

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

IP54/type 12

### 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

### Power consumption

3 kW

## Resources

### Application notes

Analog I/Os

Load balancing in multi motor applications

Starting, stopping and operation

Dual Rating What exactly does that mean?

Torque control

Smoke Mode and fire mode

Electromagnetic compatibility (EMC)

PID controller

Real time clock and use of the timers

Connecting drives to generator supplies

Motor data and V/f curves

DG1 in pump and fan applications

Operating at low temperatures

Digital I/Os

### Catalogs

Product Datasheet - DG1-347D6FB-C54C

Eaton's Volume 6—Solid-State Motor Control

Product Range Catalog Drives Engineering

### Drawings

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

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

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

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

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

DG1\_FB\_(FR1-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 - DG1-347D6FB-C54C

## 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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