

Eaton DG1-32017FB-C21C

Catalog Number: DG1-32017FB-C21C

Eaton PowerXL DG1 variable frequency drive, 208-240V input 3.7 kW 5 Hp CT 3PH 50/60 Hz 17.5A 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



Product Name	Catalog Number
Eaton PowerXL DG1 variable frequency drive	DG1-32017FB-C21C
	UPC
	786685886060

Product Length/Depth	Product Height
21 in	15 in

Product Width	Product Weight
10 in	25 lb

Warranty	Compliances
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

Certifications
UL 508C UL Listed cUL Listed IEC 61508 EN 62061 EN ISO 13849-1

defaultTaxonomyAttributeLabel

Brake chopper

Brake chopper

Horsepower

5 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

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

3 inputs, 3 outputs

Maximum Current

17.5/25 A

Rating

IP21

Resources

Application notes

[Electromagnetic compatibility \(EMC\)](#)

[Real time clock and use of the timers](#)

[Motor data and V/f curves](#)

[Digital I/Os](#)

[Torque control](#)

[Smoke Mode and fire mode](#)

[DG1 in pump and fan applications](#)

[Load balancing in multi motor applications](#)

[Operating at low temperatures](#)

[Analog I/Os](#)

[PID controller](#)

[Starting, stopping and operation](#)

[Dual Rating What exactly does that mean?](#)

[Connecting drives to generator supplies](#)

Catalogs

[Eaton's Volume 6—Solid-State Motor Control](#)

[Datasheet](#)

[Product Range Catalog Drives Engineering](#)

Drawings

[DG1_FB_\(FR2-UL\) AutoCAD 2D Footprint](#)

[DG1_FB_\(FR2-UL\) 3D Inventor](#)

[DG1_FB_\(FR2-UL\) AutoCAD 2D Footprint \(mm\)](#)

[DG1_FB_\(FR2-UL\) 2D Drawing Xchange](#)

[DG1_FB_\(FR2-UL\) 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 - DG1-32017FB-C21C](#)

Protection

Internal EMC filter, DC choke

Output current - max

17.5 A

Software

Active energy control, quick start wizard

Number of slots

2 expansion slots

Material

Coated board

Power consumption

3.7 kW

Electromagnetic compatibility filter

EMC Filter

Internal DC choke

Yes

Conformal coated boards

Yes

User interface

Graphical Keypad

High overload (CT) amps

17.5 A

High overload (CT) kW

3.7 kW

High overload (CT) hp

5 hp

Low overload (VT) amps

25 A

Low overload (VT) kW

5.5 kW

Low overload (VT) hp

7.5 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

30

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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