

Eaton DG1-34023FB-C21C

Catalog Number: DG1-34023FB-C21C

Eaton PowerXL DG1 variable frequency drive, 380-500V input 11 kW 15 Hp CT 3PH 50/60 Hz 23A 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



Product Name	Catalog Number
Eaton PowerXL DG1 variable frequency drive	DG1-34023FB-C21C
	UPC
	786685878768

Product Length/Depth	Product Height
21 in	14 in

Product Width	Product Weight
10 in	26.2 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 EN 61800-5-1 IEC 61508 EN 62061 EN ISO 13849-1 EN 61800-3 cUL Listed UL Listed

Product specifications

Max overload

110% for 1 minute

High overload (CT) amps

23 A

Phase

Three-phase in, three-phase out

Motor control modes

Frequency, Speed, Open-loop speed, Open-loop torque

Internal DC choke

Yes

Conformal coated boards

Yes

Low overload (VT) kW

15 kW

Enclosure

IP21/type 1

Number of slots

2 expansion slots

Communications onboard

EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP

Motor type

Inductio, PM (IPM & SPM)

Electromagnetic compatibility filter

EMC Filter

User interface

Graphical Keypad

Brake chopper

Brake chopper

Input output

400 Vac (380-500 Vac)

Power consumption

11 kW

High overload (CT) kW

11 kW

Resources

Application notes

[Operating at low temperatures](#)

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

[PID controller](#)

[DG1 in pump and fan applications](#)

[Torque control](#)

[Smoke Mode and fire mode](#)

[Digital I/Os](#)

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

[Connecting drives to generator supplies](#)

[Analog I/Os](#)

[Load balancing in multi motor applications](#)

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

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

[Starting, stopping and operation](#)

Catalogs

[Data sheet](#)

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

[Product Range Catalog Drives Engineering](#)

Drawings

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

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

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

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

[DG1_FB_\(FR2-UL\) 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 - DG1-34023FB-C21C](#)

Horsepower

15 hp

Frequency rating

50-60 Hz

Protection

Internal EMC filter, DC choke

Communication

EtherNet, RS-485, BACnet MS/TP, Modbus TCP and RTU communication

Input voltage

400 V, 380-500 V(-15%, +10%)

Material

Coated board

Low overload (VT) hp

20 hp

Output current - max

23 A

Low overload (VT) amps

31 A

High overload (CT) hp

15 hp

Frame size

3

Output frequency range

0 - 400 Hz

Input voltage range

380 - 500 V

Recommended fuse size

35

Keypad

Included

Input frequency range

50 - 60 Hz

Software

Active energy control, quick start wizard

Torque rating

CT

Display

LCD graphical



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