

# Eaton DG1-34170FB-C21C

Catalog Number: DG1-34170FB-C21C

Eaton PowerXL DG1 variable frequency drive, 380-500V input 90 kW 125 Hp CT 3PH 50/60 Hz 170A output IP21/type 1 enclosure FR6 LCD display Internal EMC filter and DC choke EtherNet



## General specifications

<b>Product Name</b>	<b>Catalog Number</b>
Eaton PowerXL DG1 variable frequency drive	DG1-34170FB-C21C
	<b>UPC</b>
	786685900667
<b>Product Length/Depth</b>	<b>Product Height</b>
38.2 in	14.5 in
<b>Product Width</b>	<b>Product Weight</b>
15 in	160 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

125 hp

### Phase

Three-phase in, three-phase out

### Frequency rating

50-60 Hz

### Frame size

6

### 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

IP21/type 1

### Protection

Internal EMC filter, DC choke

### Output current - max

170 A

### Software

Active energy control, quick start wizard

### Number of slots

2 expansion slots

### Material

Coated board

### Power consumption

90 kW

## Resources

### Application notes

[Load balancing in multi motor applications](#)

[Smoke Mode and fire mode](#)

[Torque control](#)

[Digital I/Os](#)

[Starting, stopping and operation](#)

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

[Operating at low temperatures](#)

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

[PID controller](#)

[Analog I/Os](#)

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

[Connecting drives to generator supplies](#)

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

[DG1 in pump and fan applications](#)

### Catalogs

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

[Product Range Catalog Drives Engineering](#)

[Product Datasheet - DG1-34170FB-C21C](#)

### 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 - DG1-34170FB-C21C](#)

### Warranty guides

[Selling Policy 25-000 - Distribution and Control Products and Services](#)

#### Electromagnetic compatibility filter

EMC Filter

#### Internal DC choke

Yes

#### Conformal coated boards

Yes

#### User interface

Graphical Keypad

#### High overload (CT) amps

170 A

#### High overload (CT) kW

90 kW

#### High overload (CT) hp

125 hp

#### Low overload (VT) amps

205 A

#### Low overload (VT) kW

110 kW

#### Low overload (VT) hp

150 hp

#### 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

250

#### 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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