

# Eaton DG1-35027FB-C21C

Catalog Number: DG1-35027FB-C21C

Eaton PowerXL DG1 variable frequency drive, 525-600V input 18 kW 25 Hp CT 3PH 50/60 Hz 27A output IP21/type 1 FR4 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	DG1-35027FB-C21C
	<b>UPC</b>
	786685975214

<b>Product Length/Depth</b>	<b>Product Height</b>
16.14 in	27.36 in

<b>Product Width</b>	<b>Product Weight</b>
11.81 in	50.71 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.	RoHS Compliant C-Tick Compliant CE Marked GoST-R

<b>Certifications</b>
cUL Listed UL Listed UL 508C EN ISO 13849-1 EN 62061 IEC 61508

## Product specifications

### Max overload

110% for 1 minute

### Protection filtering

Internal EMC filter and DC choke

### High overload (CT) amps

27 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

22 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

### Power consumption

18 kW

### High overload (CT) kW

18.5 kW

## Resources

### Application notes

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

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

[Load balancing in multi motor applications](#)

[Operating at low temperatures](#)

[Starting, stopping and operation](#)

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

[PID controller](#)

[DG1 in pump and fan applications](#)

[Connecting drives to generator supplies](#)

[Smoke Mode and fire mode](#)

[Torque control](#)

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

[Analog I/Os](#)

[Digital I/Os](#)

### Catalogs

[Product Datasheet - DG1-35027FB-C21C](#)

[Product Range Catalog Drives Engineering](#)

### Multimedia

[Power XL General Purpose Drives](#)

[PowerXL DG1 Variable Frequency Drive - Setup via WebUI](#)

### Specifications and datasheets

[Eaton Specification Sheet - DG1-35027FB-C21C](#)

#### Horsepower

25 hp

#### Frequency rating

50-60 Hz

#### Protection

Internal EMC filter, DC choke

#### Communication

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

#### Special features

Coated boards

#### Input voltage

575 V, 525-600 V(-15%, +10%)

#### Material

Coated board

#### Low overload (VT) hp

30 hp

#### Output current - max

27 A

#### Low overload (VT) amps

34 A

#### High overload (CT) hp

25 hp

#### Frame size

4

#### Output frequency range

0 - 400 Hz

#### Input voltage range

525 - 600 V

#### Recommended fuse size

40

#### 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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