

# Eaton DG1-35100FN-C21C

Catalog Number: DG1-35100FN-C21C

Eaton PowerXL DG1 variable frequency drive, 525-600V input 75 kW 100 Hp CT 3PH 50/60 Hz 100A output IP21/type 1 enclosure FR6 LCD Internal EMC filter and DC choke EtherNet, RS-485, BACnet MS/TP, Modbus TCP and RTU ports 2 exp slots

## General specifications



### Product Name

Eaton PowerXL DG1 variable frequency drive

### Catalog Number

DG1-35100FN-C21C

### UPC

786685975443

### Product Length/Depth

14.96 in

### Product Height

38.19 in

### Product Width

14.96 in

### Product Weight

172 lb

### Warranty

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.

### Compliances

RoHS Compliant  
CE Marked  
C-Tick Compliant  
GoST-R

### Certifications

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

## defaultTaxonomyAttributeLabel

### Brake chopper

No brake chopper

### Horsepower

100 hp

### Phase

Three-phase in, three-phase out

### Protection filtering

Internal EMC filter and DC choke

### Special features

Coated boards

### Frequency rating

50-60 Hz

### Frame size

6

### Keypad

Included

### Input voltage

575 V, 525-600 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

100 A

### Software

Active energy control, quick start wizard

### Number of slots

2 expansion slots

## Resources

### Application notes

Digital I/Os

Dual Rating What exactly does that mean?

Starting, stopping and operation

Motor data and V/f curves

Electromagnetic compatibility (EMC)

DG1 in pump and fan applications

Torque control

Smoke Mode and fire mode

Load balancing in multi motor applications

PID controller

Real time clock and use of the timers

Analog I/Os

Connecting drives to generator supplies

Operating at low temperatures

### Catalogs

Product Datasheet - DG1-35100FN-C21C

Product Range Catalog Drives Engineering

### Multimedia

PowerXL DG1 Variable Frequency Drive - Setup via WebUI

Power XL General Purpose Drives

### Specifications and datasheets

Eaton Specification Sheet - DG1-35100FN-C21C

#### Material

Coated board

#### Power consumption

75 kW

#### Electromagnetic compatibility filter

EMC Filter

#### Internal DC choke

Yes

#### Conformal coated boards

Yes

#### User interface

Graphical Keypad

#### High overload (CT) amps

100 A

#### High overload (CT) kW

75 kW

#### High overload (CT) hp

100 hp

#### Low overload (VT) amps

125 A

#### Low overload (VT) kW

90 kW

#### Low overload (VT) hp

125 hp

#### Input voltage range

525 - 600 V

#### Input frequency range

50 - 60 Hz

#### Output frequency range

0 - 400 Hz

#### Max overload

110% for 1 minute

#### Recommended fuse size

160

#### 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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