

# Eaton DG1-35100FN-C54C

Catalog Number: DG1-35100FN-C54C

Eaton PowerXL DG1 variable frequency drive, 525-600V input 75 kW 100 Hp CT 3PH 50/60 Hz 100A output IP54/type 12 FR6 LCD display Internal EMC filter and DC choke EtherNet, RS-485, BACnet MS/TP, Modbus TCP and RTU ports 2 expansion slots

## General specifications



<b>Product Name</b>	<b>Catalog Number</b>
Eaton PowerXL DG1 variable frequency drive	DG1-35100FN-C54C
	<b>UPC</b>
	786685975450

<b>Product Length/Depth</b>	<b>Product Height</b>
14.96 in	38.19 in

<b>Product Width</b>	<b>Product Weight</b>
14.96 in	172 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.	CE Marked C-Tick Compliant RoHS Compliant GoST-R

<b>Certifications</b>
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

IP54/type 12

### 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

PID controller

Connecting drives to generator supplies

Real time clock and use of the timers

Torque control

Smoke Mode and fire mode

DG1 in pump and fan applications

Motor data and V/f curves

Operating at low temperatures

Analog I/Os

Load balancing in multi motor applications

Electromagnetic compatibility (EMC)

Dual Rating What exactly does that mean?

Starting, stopping and operation

Digital I/Os

### Catalogs

Product Datasheet - DG1-35100FN-C54C

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-C54C

#### 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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