

Eaton DG1-35052FN-C54C

Catalog Number: DG1-35052FN-C54C

Eaton PowerXL DG1 variable frequency drive, 525-600V input 37 kW 50 Hp CT 3PH 50/60 Hz 52A output IP54/type 12 FR5 LCD display Internal EMC filter and DC choke EtherNet, RS-485, BACnet MS/TP, Modbus TCP and RTU ports 2 expansion slots

General specifications



Product Name	Catalog Number
Eaton PowerXL DG1 variable frequency drive	DG1-35052FN-C54C
	UPC
	786685975320

Product Length/Depth	Product Height
17 in	28 in

Product Width	Product Weight
15 in	92 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.	CE Marked RoHS Compliant 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

50 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

5

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

52 A

Software

Active energy control, quick start wizard

Number of slots

2 expansion slots

Resources

Application notes

DG1 in pump and fan applications

Torque control

Smoke Mode and fire mode

Motor data and V/f curves

Analog I/Os

Electromagnetic compatibility (EMC)

Load balancing in multi motor applications

Operating at low temperatures

PID controller

Connecting drives to generator supplies

Real time clock and use of the timers

Dual Rating What exactly does that mean?

Starting, stopping and operation

Digital I/Os

Catalogs

Product Range Catalog Drives Engineering

Product Datasheet - DG1-35052FN-C54C

Multimedia

Power XL General Purpose Drives

PowerXL DG1 Variable Frequency Drive - Setup via WebUI

Specifications and datasheets

Eaton Specification Sheet - DG1-35052FN-C54C

Material

Coated board

Power consumption

37 kW

Electromagnetic compatibility filter

EMC Filter

Internal DC choke

Yes

Conformal coated boards

Yes

User interface

Graphical Keypad

High overload (CT) amps

52 A

High overload (CT) kW

37 kW

High overload (CT) hp

50 hp

Low overload (VT) amps

62 A

Low overload (VT) kW

45 kW

Low overload (VT) hp

60 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

80

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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Eaton House
30 Pembroke Road
Dublin 4, Ireland
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