

Eaton DG1-35052FN-C21C

Catalog Number: DG1-35052FN-C21C

Eaton PowerXL DG1 variable frequency drive, 525-600V input 37 kW 50 Hp CT 3PH 50/60 Hz 52A output IP21/type 1 enclosure FR5 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

DG1-35052FN-C21C

UPC

786685975313

Product Length/Depth

17 in

Product Height

28 in

Product Width

15 in

Product Weight

92 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

C-Tick Compliant
RoHS Compliant
CE Marked
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

IP21/type 1

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

[Analog I/Os](#)

[Digital I/Os](#)

[PID controller](#)

[Torque control](#)

[Smoke Mode and fire mode](#)

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

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

[DG1 in pump and fan applications](#)

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

[Starting, stopping and operation](#)

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

[Connecting drives to generator supplies](#)

[Operating at low temperatures](#)

[Load balancing in multi motor applications](#)

Catalogs

[Product Datasheet - DG1-35052FN-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 - DG1-35052FN-C21C](#)

Warranty guides

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

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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