

Eaton DG1-35052FB-C21C

Catalog Number: DG1-35052FB-C21C

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



| | |
|--|-----------------------|
| Product Name | Catalog Number |
| Eaton PowerXL DG1 variable frequency drive | DG1-35052FB-C21C |
| | UPC |
| | 786685975290 |

| | |
|-----------------------------|-----------------------|
| 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 C-Tick Compliant RoHS Compliant GoST-R |

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

defaultTaxonomyAttributeLabel

Brake chopper

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

Real time clock and use of the timers

DG1 in pump and fan applications

Digital I/Os

Analog I/Os

Load balancing in multi motor applications

Electromagnetic compatibility (EMC)

Operating at low temperatures

Connecting drives to generator supplies

Motor data and V/f curves

Dual Rating What exactly does that mean?

Starting, stopping and operation

PID controller

Smoke Mode and fire mode

Torque control

Catalogs

Product Datasheet - DG1-35052FB-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 - DG1-35052FB-C21C

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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