Product specifications

Eaton DG1-35027FB-C21C

Catalog Number: DG1-35027FB-C21C

Eaton PowerXL DG1 variable frequency drive, 525-600V input 18 kW 25 Hp CT 3PH 50/60 Hz 27A output IP21/type 1 FR4 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
Eaton PowerXL DG1 variable frequency drive

Catalog Number
DG1-35027FB-C21C

UPC
786685975214

Product Length/Depth
16.14 in

Product Height
27.36 in

Product Width
11.81 in

Product Weight
50.71 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
C-Tick Compliant
CE Marked
GoST-R

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

Product specifications

Max overload

110% for 1 minute

Protection filtering

Internal EMC filter and DC choke

High overload (CT) amps

27 A

Phase

Three-phase in, three-phase out

Motor control modes

Frequency, Speed, Open-loop speed, Open-loop torque

Internal DC choke

Yes

Conformal coated boards

Yes

Low overload (VT) kW

22 kW

Enclosure

IP21/type 1

Number of slots

2 expansion slots

Communications onboard

EtherNet/IP, Modbus TCP, RS-485: Modbus RTU, BACnet MS/TP

Motor type

Inductio, PM (IPM & SPM)

Electromagnetic compatibility filter

EMC Filter

User interface

Graphical Keypad

Brake chopper

Brake chopper

Power consumption

18 kW

High overload (CT) kW

18.5 kW

Resources

Application notes

Operating at low temperatures

DG1 in pump and fan applications

Smoke Mode and fire mode

Torque control

Load balancing in multi motor applications

Digital I/Os

Connecting drives to generator supplies

Motor data and V/f curves

PID controller

Analog I/Os

Dual Rating What exactly does that mean?

Starting, stopping and operation

Real time clock and use of the timers

Electromagnetic compatibility (EMC)

Catalogs

Product Datasheet - DG1-35027FB-C21C

Product Range Catalog Drives Engineering

Specifications and datasheets

Eaton Specification Sheet - DG1-35027FB-C21C

Horsepower

25 hp

Frequency rating

50-60 Hz

Protection

Internal EMC filter, DC choke

Communication

EtherNet, RS-485, BACnet MS/TP, Modbus TCP and RTU communication

Special features

Coated boards

Input voltage

575 V, 525-600 V(-15%, +10%)

Material

Coated board

Low overload (VT) hp

30 hp

Output current - max

27 A

Low overload (VT) amps

34 A

High overload (CT) hp

25 hp

Frame size

4

Output frequency range

0 - 400 Hz

Input voltage range

525 - 600 V

Recommended fuse size

40

Keypad

Included

Input frequency range

50 - 60 Hz

Software

Active energy control, quick start wizard

Torque rating

CT

Display

LCD graphical

Eaton Corporation plc
Eaton House
30 Pembroke Road
Dublin 4, Ireland
Eaton.com

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