

Eaton DG1-35034FB-C54C

Catalog Number: DG1-35034FB-C54C

Eaton PowerXL DG1 variable frequency drive, 525-600V input 22 kW 30 Hp CT 3PH 50/60 Hz 34A output IP54/type 12 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	Catalog Number
Eaton PowerXL DG1 variable frequency drive	DG1-35034FB-C54C
	UPC
	786685975245

Product Length/Depth	Product Height
27 in	16 in

Product Width	Product Weight
12 in	52 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

30 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

4

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

34 A

Software

Active energy control, quick start wizard

Number of slots

2 expansion slots

Resources

Application notes

[Operating at low temperatures](#)

[Starting, stopping and operation](#)

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

[Digital I/Os](#)

[Smoke Mode and fire mode](#)

[Torque control](#)

[PID controller](#)

[DG1 in pump and fan applications](#)

[Connecting drives to generator supplies](#)

[Analog I/Os](#)

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

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

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

[Load balancing in multi motor applications](#)

Catalogs

[Product Datasheet - DG1-35034FB-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 - DG1-35034FB-C54C](#)

Material

Coated board

Power consumption

22 kW

Electromagnetic compatibility filter

EMC Filter

Internal DC choke

Yes

Conformal coated boards

Yes

User interface

Graphical Keypad

High overload (CT) amps

34 A

High overload (CT) kW

22 kW

High overload (CT) hp

30 hp

Low overload (VT) amps

41 A

Low overload (VT) kW

30 kW

Low overload (VT) hp

40 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

50

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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