

Eaton DG1-35144FN-C21C

Catalog Number: DG1-35144FN-C21C

Eaton PowerXL DG1 variable frequency drive, 525-600V input 110 kW 150 Hp CT 3PH 50/60 Hz 144A output IP21/type 1 enclosure FR6 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	Catalog Number
Eaton PowerXL DG1 variable frequency drive	DG1-35144FN-C21C
	UPC
	786676030670
Product Length/Depth	Product Height
45 in	21 in
Product Width	Product Weight
24 in	288 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.	GoST-R C-Tick Compliant CE Marked RoHS Compliant
	Certifications
	cUL Listed UL Listed UL 508C EN ISO 13849-1 EN 62061 IEC 61508



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Horsepower

150 hp

Phase

Three-phase in, three-phase out

Frequency rating

50-60 Hz

Frame size

6

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

NEMA rating

NEMA 1

Protection

Internal EMC filter, DC choke

Output current - max

144 A

Software

Active energy control, quick start wizard

Number of slots

2 expansion slots

Material

Coated board

Power consumption

110 kW

Resources

Application notes

DG1 in pump and fan applications

Connecting drives to generator supplies

Real time clock and use of the timers

Starting, stopping and operation

Dual Rating What exactly does that mean?

Operating at low temperatures

Load balancing in multi motor applications

PID controller

Motor data and V/f curves

Digital I/Os

Electromagnetic compatibility (EMC)

Analog I/Os

Smoke Mode and fire mode

Torque control

Catalogs

Product Range Catalog Drives Engineering

Product Datasheet - DG1-35144FN-C21C

Multimedia

PowerXL DG1 Variable Frequency Drive - Setup via WebUI

Power XL General Purpose Drives

Specifications and datasheets

Eaton Specification Sheet - DG1-35144FN-C21C

Warranty guides

Selling Policy 25-000 - Distribution and Control Products and Services

Electromagnetic compatibility filter

EMC Filter

Internal DC choke

Yes

Conformal coated boards

Yes

User interface

Graphical Keypad

High overload (CT) amps

144 A

High overload (CT) kW

110 kW

High overload (CT) hp

150 hp

Low overload (VT) amps

208 A

Low overload (VT) kW

150 kW

Low overload (VT) hp

200 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

250

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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