

Eaton DG1-35080FN-C21C

Catalog Number: DG1-35080FN-C21C

Eaton PowerXL DG1 variable frequency drive, 525-600V input 75 kW 75 Hp CT 3PH 50/60 Hz 80A 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	DG1-35080FN-C21C
	UPC
	786685975405

Product Length/Depth	Product Height
14.96 in	38.19 in

Product Width	Product Weight
14.96 in	172 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.	RoHS Compliant CE Marked C-Tick Compliant GoST-R

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

defaultTaxonomyAttributeLabel

Brake chopper

No brake chopper

Horsepower

75 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

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

Protection

Internal EMC filter, DC choke

Output current - max

80 A

Software

Active energy control, quick start wizard

Number of slots

2 expansion slots

Resources

Application notes

Operating at low temperatures

Load balancing in multi motor applications

Smoke Mode and fire mode

Torque control

PID controller

DG1 in pump and fan applications

Electromagnetic compatibility (EMC)

Analog I/Os

Motor data and V/f curves

Digital I/Os

Connecting drives to generator supplies

Real time clock and use of the timers

Dual Rating What exactly does that mean?

Starting, stopping and operation

Catalogs

Product Range Catalog Drives Engineering

Product Datasheet - DG1-35080FN-C21C

Multimedia

PowerXL DG1 Variable Frequency Drive - Setup via WebUI

Power XL General Purpose Drives

Specifications and datasheets

Eaton Specification Sheet - DG1-35080FN-C21C

Material

Coated board

Power consumption

75 kW

Electromagnetic compatibility filter

EMC Filter

Internal DC choke

Yes

Conformal coated boards

Yes

User interface

Graphical Keypad

High overload (CT) amps

80 A

High overload (CT) kW

55 kW

High overload (CT) hp

75 hp

Low overload (VT) amps

100 A

Low overload (VT) kW

75 kW

Low overload (VT) hp

100 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

125

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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