Specifications



Photo is representative





Eaton DG1-34012FB-C21C

Eaton PowerXL DG1 variable frequency drive, 480V input. 5.5 kW, 7.5 Hp CT, 3PH, 50/60 Hz, 12A output, IP21/type 1 enclosure, FR2, LCD display, Internal EMC filter and DC choke EtherNet, RS-485

General specifications	
PRODUCT NAME	Eaton PowerXL DG1 variable frequency drive
CATALOG NUMBER	DG1-34012FB-C21C
UPC	786685878799
PRODUCT LENGTH/DEPTH	21.34 in
PRODUCT HEIGHT	14.17 in
PRODUCT WIDTH	10.24 in
PRODUCT WEIGHT	26.46 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	C-Tick Compliant RoHS Compliant CE Marked GoST-R
CERTIFICATIONS	EN 61800-5-1 UL 508C EN ISO 13849-1 EN 62061 IEC 61508 EN 61800-3 cUL Listed UL Listed
PRODUCT TYPE	Variable frequency drive

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Product specifications

BRAKE CHOPPER	Brake chopper
HORSEPOWER	7.50 hp
PHASE	Three-phase in, three-phase out
FREQUENCY RATING	50-60 Hz
FRAME SIZE	2
KEYPAD	Included
INPUT VOLTAGE	230 V, 208-240 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
INPUT OUTPUT	400 Vac (380-500 Vac)
PROTECTION	Internal EMC filter, DC choke
OUTPUT CURRENT - MAX	12 A
SOFTWARE	Active energy control, quick start wizard
NUMBER OF SLOTS	2 expansion slots
MATERIAL	Coated board
POWER CONSUMPTION	5.5 kW
ELECTROMAGNETIC COMPATIBILITY FILTER	EMC Filter
INTERNAL DC CHOKE	Yes
CONFORMAL COATED BOARDS	Yes
USER INTERFACE	Graphical Keypad
HIGH OVERLOAD (CT) AMPS	12 A
HIGH OVERLOAD (CT) KW	5.5 kW
HIGH OVERLOAD (CT) HP	7.5 hp
LOW OVERLOAD (VT) AMPS	16 A
LOW OVERLOAD (VT) KW	7.5 Kw
LOW OVERLOAD (VT) HP	10 hp
INPUT VOLTAGE RANGE	380 - 500 V
INPUT FREQUENCY RANGE	50 - 60 Hz
OUTPUT FREQUENCY RANGE	0 - 400 Hz
MAX OVERLOAD	110% for 1 minute

Resources

CATALOGS	Solid-State Motor Control, Variable Frequency Drives, Volume 6, Tab 2 eaton-drives-soft-starter-catalog-ca04020001zen-us.pdf
MULTIMEDIA	Power XL General Purpose Drives PowerXL DG1 Variable Frequency Drive - Setup via WebUI
SPECIFICATIONS AND DATASHEETS	Eaton Specification Sheet - DG1-34012FB-C21C

RECOMMENDED FUSE SIZE	20
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)

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
DATE:	

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