Specifications







Eaton DG1-34170FN-C21C

Eaton PowerXL DG1 variable frequency drive, 380-500V input 90 kW 125 Hp CT 3PH 50/60 Hz 170A 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	Eaton PowerXL DG1 variable frequency drive
CATALOG NUMBER	DG1-34170FN-C21C
UPC	786685878850
PRODUCT LENGTH/DEPTH	44 in
PRODUCT HEIGHT	20 in
PRODUCT WIDTH	18 in
PRODUCT WEIGHT	186 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	UL 508C EN 61800-5-1 IEC 61508 EN 62061 EN ISO 13849-1 EN 61800-3 cUL Listed UL Listed

Powering Business Worldwide

Product specifications

BRAKE CHOPPER	No brake chopper
HORSEPOWER	125 hp
PHASE	Three-phase in, three-phase out
FREQUENCY RATING	50-60 Hz
FRAME SIZE	6
KEYPAD	Included
INPUT VOLTAGE	400 V, 380-500 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	460 Vac (380-500 Vac, -15%, +10%)
PROTECTION	Internal EMC filter, DC choke
OUTPUT CURRENT - MAX	170 A
SOFTWARE	Active energy control, quick start wizard
NUMBER OF SLOTS	2 expansion slots
MATERIAL	Coated board
POWER CONSUMPTION	90 kW
ELECTROMAGNETIC COMPATIBILITY FILTER	EMC Filter
INTERNAL DC CHOKE	Yes
CONFORMAL COATED BOARDS	Yes
USER INTERFACE	Graphical Keypad
HIGH OVERLOAD (CT) AMPS	170 A
HIGH OVERLOAD (CT) KW	90 kW
HIGH OVERLOAD (CT) HP	125 hp
LOW OVERLOAD (VT) AMPS	205 A
LOW OVERLOAD (VT) KW	110 kW
LOW OVERLOAD (VT) HP	150 hp
INPUT VOLTAGE RANGE	380 - 500 V
INPUT FREQUENCY RANGE	50 - 60 Hz
OUTPUT FREQUENCY	0 - 400 Hz

Resources

CATALOGS	Solid-State Motor Control, Variable Frequency Drives, Volume 6, Tab 2 Product Range Catalog Drives Engineering
MULTIMEDIA	Power XL General Purpose Drives PowerXL DG1 Variable Frequency Drive - Setup via WebUI
SPECIFICATIONS AND DATASHEETS	Eaton Specification Sheet - DG1-34170FN-C21C
WARRANTY GUIDES	Selling Policy 25-000 - Distribution and Control Products and Services

RANGE	
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)

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
DATE:	

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

© 2025 Eaton. All Rights Reserved.

Follow us on social media to get the latest product and support information.