Specifications







Eaton DG1-34087FN-C21C

Eaton PowerXL DG1 variable frequency drive, 380-500V input 45 kW 60 Hp CT 3PH 50/60 Hz 87A output IP21/type 1 enclosure FR5 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	DG1-34087FN-C21C
UPC	786685878874
PRODUCT LENGTH/DEPTH	27.5 in
PRODUCT HEIGHT	15 in
PRODUCT WIDTH	17 in
PRODUCT WEIGHT	84 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	RoHS Compliant C-Tick Compliant CE Marked GoST-R
CERTIFICATIONS	EN 61800-5-1 UL 508C EN 61800-3 IEC 61508 EN ISO 13849-1 EN 62061 cUL Listed UL Listed
PRODUCT TYPE	Variable frequency drive

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Product specifications

BRAKE CHOPPER	No brake chopper
HORSEPOWER	60 hp
PHASE	Three-phase in, three-phase out
FREQUENCY RATING	50-60 Hz
FRAME SIZE	5
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	400 Vac (380-500 Vac)
PROTECTION	Internal EMC filter, DC choke
OUTPUT CURRENT - MAX	87 A
SOFTWARE	Active energy control, quick start wizard
NUMBER OF SLOTS	2 expansion slots
MATERIAL	Coated board
POWER CONSUMPTION	45 kW
ELECTROMAGNETIC COMPATIBILITY FILTER	EMC Filter
INTERNAL DC CHOKE	Yes
CONFORMAL COATED BOARDS	Yes
USER INTERFACE	Graphical Keypad
HIGH OVERLOAD (CT) AMPS	87 A
HIGH OVERLOAD (CT) KW	45 kW
HIGH OVERLOAD (CT) HP	60 hp
LOW OVERLOAD (VT) AMPS	105 A
LOW OVERLOAD (VT) KW	55 kW
LOW OVERLOAD (VT) HP	75 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	PowerXL DG1 Variable Frequency Drive - Setup via WebUI Power XL General Purpose Drives
SPECIFICATIONS AND DATASHEETS	Eaton Specification Sheet - DG1-34087FN-C21C

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)

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
DATE:	

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