Specifications



Photo is representative





Eaton DG1-34046FB-C54C

Eaton PowerXL DG1 variable frequency drive, 380-500V input 22 kW 30 Hp CT 3PH 50/60 Hz 46A output IP54/type 12 FR4 LCD display Internal EMC filter and DC choke EtherNet, RS-485

General specifications	
PRODUCT NAME	Eaton PowerXL DG1 variable frequency drive
CATALOG NUMBER	DG1-34046FB-C54C
UPC	786685887869
PRODUCT LENGTH/DEPTH	27 in
PRODUCT HEIGHT	16 in
PRODUCT WIDTH	11.8 in
PRODUCT WEIGHT	53 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	GoST-R C-Tick Compliant CE Marked RoHS Compliant
CERTIFICATIONS	cUL Listed UL Listed UL 508C EN ISO 13849-1 EN 62061 IEC 61508
PRODUCT TYPE	Variable frequency drive

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Product specifications

BRAKE CHOPPER	Brake chopper
HORSEPOWER	30 hp
PHASE	Three-phase in, three-phase out
FREQUENCY RATING	50-60 Hz
FRAME SIZE	4
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	IP54/type 12
PROTECTION	Internal EMC filter, DC choke
OUTPUT CURRENT - MAX	46 A
SOFTWARE	Active energy control, quick start wizard
NUMBER OF SLOTS	2 expansion slots
MATERIAL	Coated board
POWER CONSUMPTION	22 kW
ELECTROMAGNETIC COMPATIBILITY FILTER	EMC Filter
INTERNAL DC CHOKE	Yes
CONFORMAL COATED BOARDS	Yes
USER INTERFACE	Graphical Keypad
HIGH OVERLOAD (CT) AMPS	46 A
HIGH OVERLOAD (CT) KW	22 kW
HIGH OVERLOAD (CT) HP	30 hp
LOW OVERLOAD (VT) AMPS	61 A
LOW OVERLOAD (VT) KW	30 kW
LOW OVERLOAD (VT) HP	40 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
RECOMMENDED FUSE SIZE	80

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 - DG1-34046FB-C54C

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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