

**Variable frequency drive, 400 V AC, 3-phase, 170 A, 90 kW, IP54/NEMA12,
Brake chopper, DC link choke**



Powering Business Worldwide™

Part no. DG1-34170FB-C54C

9702-5109-00P

EL Number

4138111

(Norway)

General specifications		
Product name		Eaton DG1 variable frequency drive
Part no.		DG1-34170FB-C54C
EAN		4015081711079
Product Length/Depth		340.7 millimetre
Product height		888.5 millimetre
Product width		288 millimetre
Product weight		75.9 kilogram
Certifications		RoHS, ISO 9001 Safety requirements: IEC/EN 61800-5 CSA-C22.2 No. 274-13 UL IEC/EN61800-5 UL508 IEC/EN 61800-3 CUL EAC UkrSEPRO C-Tick Certified by UL for use in Canada UL report applies to both US and Canada IEC/EN61800-3 Specification for general requirements: IEC/EN 61800-2 UL Category Control No.: NMMS, NMMS7 CE UL File No.: E134360
Product Tradename		DG1
Product Type		Variable frequency drive
Product Sub Type		None

Technical data ETIM 9.0

Low-voltage industrial components (EG000017) / Frequency converter =< 1 kV (EC001857)		
Electric engineering, automation, process control engineering / Electrical drive / Static frequency converter / Static frequency / Servo converter = < 1 kV (ecl@ss13-27-02-31-01 [AKE177019])		
Mains voltage	V	380 - 500
Mains frequency		50/60 Hz
Number of phases input		3
Number of phases output		3
Max. output frequency	Hz	400
Max. output voltage	V	500
Nominal output current I2N	A	170
Max. output at quadratic load at rated output voltage	kW	110
Max. output at linear load at rated output voltage	kW	90
Power consumption	W	2024
Relative symmetric net frequency tolerance	%	10
Relative symmetric net voltage tolerance	%	10
Number of analogue outputs		2
Number of analogue inputs		2
Number of digital outputs		1
Number of digital inputs		8
With control element		Yes
Application in industrial area permitted		Yes
Application in domestic- and commercial area permitted		Yes
Supporting protocol for TCP/IP		Yes
Supporting protocol for PROFIBUS		Yes

Supporting protocol for CAN			Yes
Supporting protocol for INTERBUS			No
Supporting protocol for ASI			No
Supporting protocol for KNX			No
Supporting protocol for Modbus			Yes
Supporting protocol for Data-Highway			No
Supporting protocol for DeviceNet			Yes
Supporting protocol for SUCONET			No
Supporting protocol for LON			No
Supporting protocol for PROFINET IO			Yes
Supporting protocol for PROFINET CBA			No
Supporting protocol for SERCOS			No
Supporting protocol for Foundation Fieldbus			No
Supporting protocol for EtherNet/IP			Yes
Supporting protocol for AS-Interface Safety at Work			No
Supporting protocol for DeviceNet Safety			No
Supporting protocol for INTERBUS-Safety			No
Supporting protocol for PROFIsafe			No
Supporting protocol for SafetyBUS p			No
Supporting protocol for BACnet			Yes
Supporting protocol for other bus systems			Yes
Number of HW-interfaces industrial Ethernet			1
Number of interfaces PROFINET			0
Number of HW-interfaces RS-232			0
Number of HW-interfaces RS-422			0
Number of HW-interfaces RS-485			1
Number of HW-interfaces serial TTY			0
Number of HW-interfaces USB			0
Number of HW-interfaces parallel			0
Number of HW-interfaces other			1
With optical interface			No
With PC connection			Yes
Integrated breaking resistance			Yes
4-quadrant operation possible			Yes
Type of converter			U converter
Degree of protection (IP)			IP54
Degree of protection (NEMA)			12
Height		mm	888.5
Width		mm	288
Depth		mm	340.7