

Variable frequency drive, 400 V AC, 3-phase, 87 A, 45 kW, IP54/NEMA12,  
DC link choke



**Part no.**                    **DG1-34087FN-C54C**

**9702-4111-00P**

**EL Number**  
**(Norway)**

**4138106**

General specifications		
Product name		Eaton DG1 variable frequency drive
Part no.		DG1-34087FN-C54C
EAN		4015081710980
Product Length/Depth		294 millimetre
Product height		630 millimetre
Product width		237.7 millimetre
Product weight		35.2 kilogram
Certifications		UL508 IEC/EN61800-3 UkrSEPRO CUL Certified by UL for use in Canada CE UL File No.: E134360 RoHS, ISO 9001 C-Tick Safety requirements: IEC/EN 61800-5 IEC/EN 61800-3 EAC IEC/EN61800-5 UL UL Category Control No.: NMMS, NMMS7 Specification for general requirements: IEC/EN 61800-2 UL report applies to both US and Canada CSA-C22.2 No. 274-13
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 I <sub>2N</sub>	A	87
Max. output at quadratic load at rated output voltage	kW	55
Max. output at linear load at rated output voltage	kW	45
Power consumption	W	1217
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		No
4-quadrant operation possible		No
Type of converter		U converter
Degree of protection (IP)		IP54
Degree of protection (NEMA)		12
Height	mm	630
Width	mm	237.7
Depth	mm	294