Variable frequency drive, 400 V AC, 3-phase, 3.3 A, 1.1 kW, IP54/NEMA12, Brake chopper, DC link choke



Part no. DG1-343D3FB-C54C

9702-1103-00P

EL Number (Norway)

4138090

(NOT Way)	
General specifications	
Product name	Eaton DG1 variable frequency drive
Part no.	DG1-343D3FB-C54C
EAN	4015081710782
Product Length/Depth	200.9 millimetre
Product height	327 millimetre
Product width	153 millimetre
Product weight	6.7 kilogram
Certifications	UL CE Certified by UL for use in Canada UL report applies to both US and Canada RoHS, ISO 9001 UkrSEPRO Specification for general requirements: IEC/EN 61800-2 C-Tick IEC/EN 61800-3 UL Category Control No.: NMMS, NMMS7 UL508 IEC/EN61800-5 EAC CSA-C22.2 No. 274-13 IEC/EN61800-3 CUL Safety requirements: IEC/EN 61800-5 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	Z	400		
Max. output voltage	V		500		
Nominal output current I2N	А		3.3		
Max. output at quadratic load at rated output voltage	kV	W	1.5		
Max. output at linear load at rated output voltage	kV	W	1.1		
Power consumption	W	1	73		
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 KAN ()<			
Supporting protocol for RNIN No Supporting protocol for RNIN 1 No Supporting protocol for Mobils 1 No Supporting protocol for Devicable 2 No Supporting protocol for Devicable 3 No Supporting protocol for DNIN 8 No Supporting protocol for DNIN 8 No Supporting protocol for PROFINET DA No No Supporting protocol for PROFINET BA No No Supporting protocol for Deviabled Safety No No Supporting protocol for PROFINET No No Supporting protocol for PROFINET No No Supporting protocol for PROFINET Supporting protocol for PROFINET No Number of INV-interfaces BA-422	Supporting protocol for CAN		Yes
Supporting pretocal for MoRNIA No. Supporting pretocal for MoRNIA 10 Supporting pretocal for Delashifphanyo 10 Supporting pretocal for Delashifphanyo 10 Supporting pretocal for Delashifphanyo 10 Supporting pretocal for EURONET 10 Supporting pretocal for LON 10 Supporting pretocal for PROPINET IO 10 Supporting pretocal for PROPINET BAN 10 Supporting pretocal for PROPINET BAN 10 Supporting pretocal for PROPINET BAN 10 Supporting pretocal for FRORDIAGE BANK 10 Supporting pretocal for SafetyBUS 9 10	Supporting protocol for INTERBUS		No
Supporting protocol for Data-Highway 8 Yes Supporting protocol for Data-Highway 9 Yes Supporting protocol for Data-Highway 9 No Supporting protocol for Data-Highway 9 No Supporting protocol for Data-Highway 9 No Supporting protocol for PROFINET DIA 9 No Supporting protocol for PROFINET CBA 9 No Supporting protocol for FROFINET 9 No Supporting protocol for FROFINET 9 No Supporting protocol for No FROFINET 9 No Supporting protocol for ROFINET 9 No Supporting protocol for Saleny BUS 9 No No Supporting protocol for Saleny BUS 9 No No Number of HW-interfaces Sex 5-42 9 No Number of HW-interfaces Sex 5-42 9 No Number of HW-interfaces S	Supporting protocol for ASI		No
Supporting protocol for Deta-Highway 9 Yes Supporting protocol for DeviceNet 9 Yes Supporting protocol for USCONET 9 No Supporting protocol for LON 9 No Supporting protocol for PROFINET ICA 9 No Supporting protocol for PROFINET CBA 9 No Supporting protocol for FROHOMED READON 9 No Supporting protocol for EtherAster 9 No Supporting protocol for EtherAster 9 No Supporting protocol for EtherAster Safety 9 No Supporting protocol for Education Safety 9 No Supporting protocol for InteRBUS Safety 9 No Supporting protocol for PROFISHA 9 No Supporting protocol for PROFISHA 9 No Supporting protocol for Ether Safety BUS safety 9 No Supporting protocol for Ether Safety BUS safety 9 No Supporting protocol for Ether Safety BUS safety 9 No Number of HW-interfaces BORINET 9	Supporting protocol for KNX		No
Supporting protocol for DeviceNet Yes Supporting protocol for SUCONET No Supporting protocol for PBDFINET IO Yes Supporting protocol for PBDFINET CBA No Supporting protocol for PBDFINET CBA No Supporting protocol for EBDRACE No Supporting protocol for EBDRACE No Supporting protocol for EbbrahotP Yes Supporting protocol for EbbrahotP Yes Supporting protocol for DeviceNet Safety No Supporting protocol for DeviceNet Safety No Supporting protocol for DeviceNet Safety No Supporting protocol for DEVELORISE No Supporting protocol for Develorise Safety No Supporting protocol for DEVELORISE No Supporting protocol for BEACE No Supporting protocol for DEVELORISE No Supporting protocol for DEVELORISE No Supporting protocol for DEVELORISE No Supp	Supporting protocol for Modbus		Yes
Supporting protocol for SUCONET No Supporting protocol for PROFINET CBA Yes Supporting protocol for PROFINET CBA Yes Supporting protocol for PROFINET CBA No Supporting protocol for PROFINET CBA No Supporting protocol for FROFINET CBA No Supporting protocol for Foundation Fieldhus Yes Supporting protocol for Foundation Fieldhus Yes Supporting protocol for Fundation Fieldhus Yes Supporting protocol for Supporting Protocol Supporting Pro	Supporting protocol for Data-Highway		No
Supporting protocol for LON No Supporting protocol for PROFINET ICBA Yes Supporting protocol for PROFINET CBA No Supporting protocol for PROFINET CBA No Supporting protocol for Face (10 SERCOS) No Supporting protocol for Foundation Fieldbus No Supporting protocol for Fundation Fieldbus No Supporting protocol for DeviceNet Safety No Supporting protocol for Professafe No Supporting protocol for SafetyBUSp No Supporting protocol for SafetyBUSp Yes Number of MW-interfaces industrial Ethornat I 1 Number of MW-interfaces SPROFINET 0 0 Number of MW-interfaces SR-42 0 0 Number of MW-interfaces SR-43 0 0 Number of MW-interfaces SR-45 0 0 Number of MW-interfaces spraid 0	Supporting protocol for DeviceNet		Yes
Supporting protocol for PRDFINET IO Yes Supporting protocol for PRDFINET CBA No Supporting protocol for SERCOS No Supporting protocol for Fundation Fieldues Yes Supporting protocol for Fundation Fieldues No Supporting protocol for Fundation Fieldues No Supporting protocol for Fundation Fieldues No Supporting protocol for Selectivation No Number of HW-interfaces RS-422 0 Number of HW-interfaces RS-422 0 Number of HW-interfaces Selectivation <t< td=""><td>Supporting protocol for SUCONET</td><td></td><td>No</td></t<>	Supporting protocol for SUCONET		No
Supporting protocol for PROFINET CBA No Supporting protocol for SERCOS No Supporting protocol for EthenNet/IP Yes as Supporting protocol for EthenNet/IP No Supporting protocol for DeviceNet Safety No Supporting protocol for DeviceNet Safety No Supporting protocol for INITERBUS-Safety No Supporting protocol for PROFIsafe No Supporting protocol for PROFIsafe No Supporting protocol for SafetyBUS p No Supporting protocol for SafetyBUS p No Supporting protocol for Other bus systems Yes Number of HW-interfaces industrial Ethernet 1 Number of HW-interfaces RS-32 0 Number of HW-interfaces RS-423 0 Number of HW-interfaces RS-428 1 Number of HW-interfaces RS-428 0 Number of HW-interfaces sparallel 0 Number of HW-interfaces sparallel 0 Number of HW-interfaces sparallel 0 Number of HW-interfaces parallel 0 Virby PC connection 0 Augudrant operation possible<	Supporting protocol for LON		No
Supporting protocol for SERCOS No Supporting protocol for Foundation Fieldbus Yes Supporting protocol for Envirolation Fieldbus Yes Supporting protocol for As-Interface Safety at Work No Supporting protocol for DeviceNt Safety No Supporting protocol for PROFIsafe No Supporting protocol for SafetyBUS p No Supporting protocol for BACRET Yes Supporting protocol for BACRET Yes Supporting protocol for Other bus systems Yes Number of HW-interfaces Industrial Etheret 1 Number of HW-interfaces PROFINET 0 Number of HW-interfaces RS-222 0 Number of HW-interfaces RS-423 0 Number of HW-interfaces RS-428 0 Number of HW-interfaces RS-428 0 Number of HW-interfaces Stafe 6 Number of HW-interfaces Stafe 7 Number of HW-interfaces Stafe 8 Number of HW-interfaces Stafe 9 Number of HW-interfaces Stafe 9 Number of HW-interfaces Stafe 9 Number of HW-interfaces paralle	Supporting protocol for PROFINET IO		Yes
Supporting protocol for Foundation Fieldbus No Supporting protocol for EtherNet/IP Yes Supporting protocol for DeviceNet Safety at Work No Supporting protocol for DeviceNet Safety No Supporting protocol for INTERBUS-Safety No Supporting protocol for PROFIsafe No Supporting protocol for READISA No Supporting protocol for SafetyBUS p No Supporting protocol for SafetyBUS p No Supporting protocol for BADeat Yes Supporting protocol for BADeat Yes Supporting protocol for BADeat 1 Supporting protocol for SafetyBUS p No Supporting protocol for BADeat Yes Supporting protocol for BADeat 1 Supporting protocol for SafetyBUS p No Supporting protocol for SafetyBUS p No Supporting protocol for SafetyBUS p No Supporting protocol for SafetyBUS p 1 Supporting protocol for SafetyBUS p 1 Number of HW-interfaces RS-322 1 Number of HW-interfaces Safety BUS 1 Number o	Supporting protocol for PROFINET CBA		No
Supporting protocol for EtherNet/IP Yes Supporting protocol for AS-Interface Safety at Work Ho Supporting protocol for DeviceNet Safety No Supporting protocol for INTERBUS-Safety No Supporting protocol for PROFIsale 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 HW-interfaces RS-232 0 Number of HW-interfaces RS-232 0 Number of HW-interfaces RS-455 1 Number of HW-interfaces RS-485 0 Number of HW-interfaces serial TTY 0 Number of HW-interfaces serial TY 0 Yes	Supporting protocol for SERCOS		No
Supporting protocol for AS-Interface Safety at Work No Supporting protocol for DeviceNet Safety No Supporting protocol for INTERBUS-Safety No Supporting protocol for PROPIdade No Supporting protocol for SafetyBUS p No Supporting protocol for SafetyBUS p Yes Supporting protocol for Cabene Yes Supporting protocol for Other bus systems Yes Number of HW-interfaces industrial Ethernet 1 Number of HW-interfaces RS-232 0 Number of HW-interfaces RS-422 0 Number of HW-interfaces RS-458 1 Number of HW-interfaces RS-458 0 Number of HW-interfaces usb 0 Number of HW-interfaces strial TY 0 Number of HW-interfaces strial Ethernet 0 Number of HW-interfaces usb 0 Number of HW-interfaces usb 1 With PC connection Yes Integrated breaking resistance Yes 4-quadratt operation possible Yes Supporting protocolion (NEMA) Yes Degree of protection (NEMA) Y	Supporting protocol for Foundation Fieldbus		No
Supporting protocol for DeviceNet Safety No Supporting protocol for INTERBUS-Safety No Supporting protocol for PROFIsafe No Supporting protocol for PROFIsafe No Supporting protocol for BACnet Yes Supporting protocol for BACnet Yes Supporting protocol for other bus systems 1 Number of HW-interfaces industrial Ethernet 0 Number of HW-interfaces RS-422 0 Number of HW-interfaces RS-428 0 Number of HW-interfaces RS-486 1 Number of HW-interfaces RS-487 0 Number of HW-interfaces serial TTY 0 Number of HW-interfaces serial TY 0 Vist optical interface 1 Vist optical interface Yes Vist optical interface Yes	Supporting protocol for EtherNet/IP		Yes
Supporting protocol for PROFIsafe No Supporting protocol for SafetyBUS p 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 Yes Number of HW-interfaces PROFINET 0 Number of HW-interfaces RS-232 0 Number of HW-interfaces RS-428 0 Number of HW-interfaces RS-485 1 Number of HW-interfaces RS-486 0 Number of HW-interfaces serial TTY 0 Number of HW-interfaces serial TTY 0 Number of HW-interfaces other 0 Vith pictal interface with HW-interfaces other 0 With PC connection No Vith PC connection Yes Integrated breaking resistance Yes 4-quadrant operation possible Yes Type of converter U converter Degree of protection (IP) U converter Degree of protection (NEMA) mm 327 Height mm 327	Supporting protocol for AS-Interface Safety at Work		No
Supporting protocol for PR0Flsafe 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 HW-interfaces RS-232 0 Number of HW-interfaces RS-232 0 Number of HW-interfaces RS-425 0 Number of HW-interfaces RS-485 1 Number of HW-interfaces RS-485 1 Number of HW-interfaces Serial TTY 0 Number of HW-interfaces USB 0 Number of HW-interfaces other 1 Vith optical interface 1 With Optical interface other 1 With Optical interface Yes Integrated breaking resistance Yes 4-quadrant operation possible Yes 1xpe of converter U converter Degree of protection (IP) U converter Degree of protection (NEMA) IP54 Height mm 327	Supporting protocol for DeviceNet Safety		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 HW-interfaces PROFINET 0 Number of HW-interfaces RS-232 0 Number of HW-interfaces RS-428 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 uSB 0 Number of HW-interfaces other 0 With optical interface 0 With pCc onnection Yes Integrated breaking resistance Yes 4-quadrant operation possible Yes Type of converter U converter Degree of protection (IP) IP94 Degree of protection (NEMA) mm 327 Writth mm 327 Writth mm 153	Supporting protocol for INTERBUS-Safety		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 parallel 0 Number of HW-interfaces parallel 0 Number of HW-interfaces other 1 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) mm 327 Writth mm 327 Writth mm 153	Supporting protocol for PROFIsafe		No
Supporting protocol for other bus systems Number of HW-interfaces industrial Ethernet Number of interfaces PROFINET Number of HW-interfaces RS-232 Number of HW-interfaces RS-422 Number of HW-interfaces RS-422 Number of HW-interfaces RS-485 Number of HW-interfaces serial TTY Number of HW-interfaces serial TTY Number of HW-interfaces uSB Number of HW-interfaces other No Vith pC connection Note Yes 1	Supporting protocol for SafetyBUS p		No
Number of HW-interfaces industrial Ethernet 1 Number of interfaces PR0FINET 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 uses 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) 1P54 Degree of protection (NEMA) 12 Height mm 327 Withth mm 153	Supporting protocol for BACnet		Yes
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 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 With pc connection possible Yes 4-quadrant operation possible Yes Type of converter U converter Degree of protection (IP) IP54 Degree of protection (NEMA) I2 Height mm 327 Writh the first of the position (NEMA) mm 153	Supporting protocol for other bus systems		Yes
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 uSB 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 327 Witth M mm 153	Number of HW-interfaces industrial Ethernet		1
Number of HW-interfaces RS-425 Number of HW-interfaces RS-485 Number of HW-interfaces serial TTY Number of HW-interfaces USB Number of HW-interfaces USB Number of HW-interfaces USB Number of HW-interfaces other Number of HW-interfaces other Number of HW-interfaces other No With optical interface No With PC connection Integrated breaking resistance 4-quadrant operation possible Type of converter Degree of protection (IP) Degree of protection (IP) Degree of protection (NEMA) Height Mith of the W-interfaces RS-485 1 1 1 1 1 1 1 1 1 1 1 1 1	Number of interfaces PROFINET		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 327 Width mm 153	Number of HW-interfaces RS-232		0
Number of HW-interfaces Serial TTY Number of HW-interfaces USB Number of HW-interfaces parallel Number of HW-interfaces other Number of HW-interfaces other Number of HW-interfaces other No With optical interface With PC connection Note With PC connection Integrated breaking resistance 4-quadrant operation possible Type of converter Degree of protection (IP) Degree of protection (NEMA) Height Width No Ves Ves Ves U converter IP54 Height mm 327 Width Midth	Number of HW-interfaces RS-422		0
Number of HW-interfaces USB Number of HW-interfaces parallel Number of HW-interfaces other 1 With optical interface With PC connection Integrated breaking resistance 4-quadrant operation possible Type of converter Degree of protection (IP) Degree of protection (NEMA) Height mm 153	Number of HW-interfaces RS-485		1
Number of HW-interfaces parallel Number of HW-interfaces other 1 With optical interface With PC connection With PC connection Integrated breaking resistance 4-quadrant operation possible Type of converter Degree of protection (IP) Degree of protection (NEMA) Height Width Degree of protection (NEMA) Width Degree of protection (NEMA) Midth Degree	Number of HW-interfaces serial TTY		0
Number of HW-interfaces other With optical interface With PC connection With PC connection Integrated breaking resistance 4-quadrant operation possible Type of converter Degree of protection (IP) Degree of protection (NEMA) Height Width I 1 No Yes Yes Yes U converter IP54 IP54 Height mm 327 Width	Number of HW-interfaces USB		0
With optical interface With PC connection Ves Integrated breaking resistance 4-quadrant operation possible Type of converter Degree of protection (IP) Degree of protection (NEMA) Height Width No Yes Yes Yes U converter IP54 IP54 I2 Height mm 327 Width 153	Number of HW-interfaces parallel		0
With PC connection Integrated breaking resistance 4-quadrant operation possible Type of converter U converter Degree of protection (IP) Degree of protection (NEMA) Height Width Yes Yes Yes Yes Yes Yes Yes Ye	Number of HW-interfaces other		1
Integrated breaking resistance 4-quadrant operation possible Type of converter U converter Degree of protection (IP) Degree of protection (NEMA) Height Mm 327 Width Yes U converter 12 House of protection (NEMA) 12 House of protection (NEMA) 153	With optical interface		No
4-quadrant operation possible Type of converter Degree of protection (IP) Degree of protection (NEMA) Height Width Ves U converter IP54 IP54 IP54 Width I2 Width IBMA I2 IP54 I	With PC connection		Yes
Type of converter Degree of protection (IP) Degree of protection (NEMA) Height Mm 327 Width U converter IP54 12 12 Midth	Integrated breaking resistance		Yes
Degree of protection (IP) Degree of protection (NEMA) Height Mm 153 IP54 12 Midth	4-quadrant operation possible		Yes
Degree of protection (NEMA) 12 Height mm 327 Width mm 153	Type of converter		U converter
Height mm 327 Width 153	Degree of protection (IP)		IP54
Width mm 153	Degree of protection (NEMA)		12
	Height	mm	327
Depth mm 200.9	Width	mm	153
	Depth	mm	200.9