

Variable frequency drive, 400 V AC, 3-phase, 72 A, 37 kW, IP54/NEMA12,
DC link choke



Part no. DG1-34072FN-C54C

9702-4107-00P

**EL Number
(Norway)**

4138104

| General specifications | | |
|------------------------|--|--|
| Product name | | Eaton DG1 variable frequency drive |
| Part no. | | DG1-34072FN-C54C |
| EAN | | 4015081710959 |
| Product Length/Depth | | 294 millimetre |
| Product height | | 630 millimetre |
| Product width | | 237.7 millimetre |
| Product weight | | 35.2 kilogram |
| Certifications | | Safety requirements: IEC/EN 61800-5 UL IEC/EN61800-5 CUL UL report applies to both US and Canada UL Category Control No.: NMMS, NMMS7 EAC C-Tick Specification for general requirements: IEC/EN 61800-2 IEC/EN61800-3 UkrSEPRO UL File No.: E134360 UL508 CSA-C22.2 No. 274-13 RoHS, ISO 9001 Certified by UL for use in Canada CE IEC/EN 61800-3 |
| 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 _{2N} | A | 72 |
| Max. output at quadratic load at rated output voltage | kW | 45 |
| Max. output at linear load at rated output voltage | kW | 37 |
| Power consumption | W | 914 |
| 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 |