



## Variable frequency drive, 3-phase 480 V, 12A, EMC filter, Internal braking transistor, protection type IP54

**Part no.** DG1-34012FB-C54C  
**Article no.** 9702-2101-00P  
**Catalog No.** DG1-34012FB-C54C

### Delivery program

|                                    |                 |    |                                                                                                                                                                 |
|------------------------------------|-----------------|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product range                      |                 |    | Variable frequency drives                                                                                                                                       |
| Part group reference (e.g. DIL)    |                 |    | DG1                                                                                                                                                             |
| Rated operational voltage          | U <sub>e</sub>  |    | 400 V AC, 3-phase<br>480 V AC, 3-phase<br>500 V AC, 3-phase                                                                                                     |
| Output voltage with V <sub>e</sub> | U <sub>2</sub>  |    | 400 V AC, 3-phase<br>480 V AC, 3-phase<br>500 V AC, 3-phase                                                                                                     |
| Mains voltage (50/60Hz)            | U <sub>LN</sub> | V  | 380 (-15%) - 500 (+10%)                                                                                                                                         |
| <b>Rated operational current</b>   |                 |    |                                                                                                                                                                 |
| At 150% overload                   | I <sub>e</sub>  | A  | 12                                                                                                                                                              |
| Note                               |                 |    | Rated operational current for a switching frequency of 1 - 12 kHz and an ambient temperature of +50 °C for a 150% overload and +40 °C for a 110% overload       |
| At 110% overload                   | I <sub>e</sub>  | A  | 16                                                                                                                                                              |
| Note                               |                 |    | Overload cycle for 60 s every 600 s                                                                                                                             |
| <b>Assigned motor rating</b>       |                 |    |                                                                                                                                                                 |
| Note                               |                 |    | for normal internally and externally ventilated 4 pole, three-phase asynchronous motors with 1500 rpm <sup>-1</sup> at 50 Hz or 1800 min <sup>-1</sup> at 60 Hz |
| Note                               |                 |    | Overload cycle for 60 s every 600 s                                                                                                                             |
| Note                               |                 |    | at 400 V, 50 Hz                                                                                                                                                 |
| 150 % Overload                     | P               | kW | 5.5                                                                                                                                                             |
| 110 % Overload                     | P               | kW | 7.5                                                                                                                                                             |
| 150 % Overload                     | I <sub>M</sub>  | A  | 11.5                                                                                                                                                            |
| 110 % Overload                     | I <sub>M</sub>  | A  | 15.2                                                                                                                                                            |
| Note                               |                 |    | at 500 V, 50 Hz                                                                                                                                                 |
| 150 % Overload                     | P               | kW | 5.5                                                                                                                                                             |
| 110 % Overload                     | P               | kW | 7.5                                                                                                                                                             |
| 150 % Overload                     | I <sub>M</sub>  | A  | 9                                                                                                                                                               |
| 110 % Overload                     | I <sub>M</sub>  | A  | 12.1                                                                                                                                                            |
| Note                               |                 |    | at 480 V, 60 Hz                                                                                                                                                 |
| 150 % Overload                     | P               | HP | 7.5                                                                                                                                                             |
| 110 % Overload                     | P               | HP | 10                                                                                                                                                              |
| 150 % Overload                     | I <sub>M</sub>  | A  | 11                                                                                                                                                              |
| 110 % Overload                     | I <sub>M</sub>  | A  | 14                                                                                                                                                              |
| Degree of Protection               |                 |    | IP54/NEMA12                                                                                                                                                     |
| Interface/field bus (built-in)     |                 |    | Modbus RTU, Modbus TCP, BACnet MS/TP, Ethernet IP                                                                                                               |
| Fieldbus connection (optional)     |                 |    | PROFIBUS, i.V.: ProfiNet, CAN, SmartWire-DT, DeviceNet                                                                                                          |
| Fitted with                        |                 |    | Radio interference suppression filter<br>Additional PCB protection<br>Multi-line graphic display<br>Brake chopper<br>DC link choke                              |
| Frame size                         |                 |    | FS2                                                                                                                                                             |
| Connection to SmartWire-DT         |                 |    | with SmartWire-DT module DXG-NET-SWD                                                                                                                            |

### Technical data

#### General

|           |  |  |                                                                                            |
|-----------|--|--|--------------------------------------------------------------------------------------------|
| Standards |  |  | Specification for general requirements: IEC/EN 61800-2<br>EMC requirements: IEC/EN 61800-3 |
|-----------|--|--|--------------------------------------------------------------------------------------------|

|                                   |       |    |                                                                                                                                                                           |
|-----------------------------------|-------|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                   |       |    | Safety requirements: IEC/EN 61800-5                                                                                                                                       |
| Certifications                    |       |    | CE, UL, cUL, c-Tick, UkrSepro, EAC                                                                                                                                        |
| Production quality                |       |    | RoHS, ISO 9001                                                                                                                                                            |
| Climatic proofing                 | $p_w$ | %  | < 95%, average relative humidity (RH), non-condensing, non-corrosive                                                                                                      |
| Air quality                       |       |    | 3C2, 3S2                                                                                                                                                                  |
| Ambient temperature               |       |    |                                                                                                                                                                           |
| operation (150 % overload)        | θ     | °C | -30 - +50 (max. +60 with 1 % derating per Kelvin temperature rise)                                                                                                        |
| operation (110 % overload)        | θ     | °C | -30 - +40 (max. +55 mit 1 % Derating pro Kelvin Temperaturerhöhung)                                                                                                       |
| Storage                           | θ     | °C | -40 - +70                                                                                                                                                                 |
| Overvoltage category              |       |    | III                                                                                                                                                                       |
| Pollution degree                  |       |    | 2                                                                                                                                                                         |
| Radio interference level          |       |    |                                                                                                                                                                           |
| Radio interference class (EMC)    |       |    | C1, C2, C3, depending on the motor cable length, the connected load, and ambient conditions. External radio interference suppression filters (optional) may be necessary. |
| Environment (EMC)                 |       |    | 1st and 2nd environments                                                                                                                                                  |
| maximum motor cable length        | l     | m  | C2 ≤ 10 m<br>C3 ≤ 50 m                                                                                                                                                    |
| Mechanical shock resistance       |       | g  | EN 61800-5-1, EN 60068-2-27<br>UPS drop test (for weights inside the UPS frame)<br>Storage and transportation: maximum 15 g, 11 ms (inside the packaging)                 |
| Vibration                         |       |    | EN 61800-5-1, EN 60068-2-6: 5 - 150 Hz<br>Amplitude: 1 mm (peak) at 5 - 15.8 Hz<br>Maximum acceleration amplitude: 1 g at 15.8 – 150 Hz                                   |
| Mounting position                 |       |    | Vertical                                                                                                                                                                  |
| Altitude                          |       | m  | 0 - 1000 m above sea level<br>Above 1000 m: 1% derating for every 100 m<br>max. 3000 m (2000 m for Corner Grounded TN Systems)                                            |
| Degree of Protection              |       |    | IP54/NEMA12                                                                                                                                                               |
| Protection against direct contact |       |    | BGV A3 (VBG4, finger- and back-of-hand proof)                                                                                                                             |

## Main circuit

|                                         |            |     |                                                                                                             |
|-----------------------------------------|------------|-----|-------------------------------------------------------------------------------------------------------------|
| Supply                                  |            |     |                                                                                                             |
| Rated operational voltage               | $U_e$      |     | 400 V AC, 3-phase<br>480 V AC, 3-phase<br>500 V AC, 3-phase                                                 |
| Mains voltage (50/60Hz)                 | $U_{LN}$   | V   | 380 (-15%) - 500 (+10%)                                                                                     |
| Input current (150% overload)           | $I_{LN}$   | A   | 11.2                                                                                                        |
| Input current (110% overload)           | $I_{LN}$   | T   | 15                                                                                                          |
| System configuration                    |            |     | TN-S, TN-C, TN-C-S, TT, IT                                                                                  |
| Supply frequency                        | $f_{LN}$   | Hz  | 50/60                                                                                                       |
| Frequency range                         | $f_{LN}$   | Hz  | 45 - 66                                                                                                     |
| Mains switch-on frequency               |            |     | Maximum of one time every 60 seconds                                                                        |
| Mains current distortion                | THD        | %   | 33.8                                                                                                        |
| Rated conditional short-circuit current | $I_q$      | kA  | < 100                                                                                                       |
| Power section                           |            |     |                                                                                                             |
| Function                                |            |     | Variable frequency drive with internal DC link, DC link choke and IGBT inverter                             |
| Overload current (150% overload)        | $I_L$      | A   | 18                                                                                                          |
| Overload current (110% overload)        | $I_L$      | A   | 17.6                                                                                                        |
| max. starting current (High Overload)   | $I_H$      | %   | 200                                                                                                         |
| Note about max. starting current        |            |     | for 2 seconds every 20 seconds                                                                              |
| Output voltage with $V_e$               | $U_2$      |     | 400 V AC, 3-phase<br>480 V AC, 3-phase<br>500 V AC, 3-phase                                                 |
| Output Frequency                        | $f_2$      | Hz  | 0 - 50/60 (max. 400)                                                                                        |
| Switching frequency                     | $f_{PWM}$  | kHz | 4<br>adjustable 1 - 12                                                                                      |
| Operation Mode                          |            |     | U/f control<br>Speed control with slip compensation<br>sensorless vector control (SLV)<br>Torque regulation |
| Frequency resolution (setpoint value)   | $\Delta f$ | Hz  | 0.01                                                                                                        |
| Rated operational current               |            |     |                                                                                                             |

|                                                                      |                  |                  |                                                                                                                                                                 |
|----------------------------------------------------------------------|------------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| At 150% overload                                                     | I <sub>e</sub>   | A                | 12                                                                                                                                                              |
| At 110% overload                                                     | I <sub>e</sub>   | A                | 16                                                                                                                                                              |
| Note                                                                 |                  |                  | Rated operational current for a switching frequency of 1 - 12 kHz and an ambient temperature of +50 °C for a 150% overload and +40 °C for a 110% overload       |
| Motor current limit                                                  | I                | A                | 0.1 - 2 x I <sub>H</sub> (CT)                                                                                                                                   |
| Power loss                                                           |                  |                  |                                                                                                                                                                 |
| Heat dissipation at rated operational current I <sub>e</sub> = 150 % | P <sub>V</sub>   | W                | 121                                                                                                                                                             |
| Efficiency                                                           | η                | %                | 98.2                                                                                                                                                            |
| Maximum leakage current to ground (PE) without motor                 | I <sub>PE</sub>  | mA               | 1,1                                                                                                                                                             |
| Fitted with                                                          |                  |                  | Radio interference suppression filter<br>Additional PCB protection<br>Multi-line graphic display<br>Brake chopper<br>DC link choke                              |
| Safety function                                                      |                  |                  | STO (Safe Torque Off, SIL1, PLc Cat 1)                                                                                                                          |
| Frame size                                                           |                  |                  | FS2                                                                                                                                                             |
| Motor feeder                                                         |                  |                  |                                                                                                                                                                 |
| Note                                                                 |                  |                  | for normal internally and externally ventilated 4 pole, three-phase asynchronous motors with 1500 rpm <sup>-1</sup> at 50 Hz or 1800 min <sup>-1</sup> at 60 Hz |
| Note                                                                 |                  |                  | Overload cycle for 60 s every 600 s                                                                                                                             |
| Note                                                                 |                  |                  | at 400 V, 50 Hz                                                                                                                                                 |
| 150 % Overload                                                       | P                | kW               | 5.5                                                                                                                                                             |
| Note                                                                 |                  |                  | at 500 V, 50 Hz                                                                                                                                                 |
| 150 % Overload                                                       | P                | kW               | 5.5                                                                                                                                                             |
| 110 % Overload                                                       | P                | kW               | 7.5                                                                                                                                                             |
| Note                                                                 |                  |                  | at 480 V, 60 Hz                                                                                                                                                 |
| 150 % Overload                                                       | P                | HP               | 7.5                                                                                                                                                             |
| 110 % Overload                                                       | P                | HP               | 10                                                                                                                                                              |
| maximum permissible cable length                                     | l                | m                | screened: 150                                                                                                                                                   |
| Braking function                                                     |                  |                  |                                                                                                                                                                 |
| Standard braking torque                                              |                  |                  | max. 30 % M <sub>N</sub>                                                                                                                                        |
| DC braking torque                                                    |                  |                  | adjustable to 150 %                                                                                                                                             |
| Braking torque with external braking resistance                      |                  |                  | Max. 100% of rated operational current I <sub>e</sub> with external braking resistor                                                                            |
| minimum external braking resistance                                  | R <sub>min</sub> | Ω                | 42                                                                                                                                                              |
| Switch-on threshold for the braking transistor                       | U <sub>DC</sub>  | V                | 850 V DC                                                                                                                                                        |
| DC braking                                                           | %                | I/I <sub>e</sub> |  150, adjustable                                                             |

## Control section

|                                |                |   |                                                                                   |
|--------------------------------|----------------|---|-----------------------------------------------------------------------------------|
| External control voltage       | U <sub>c</sub> | V | 24 V DC (max. 250 mA options incl.)                                               |
| Reference voltage              | U <sub>s</sub> | V | 10 V DC (max. 10 mA)                                                              |
| Analog inputs                  |                |   | 2, parameterizable, 0 - 10 V DC, 2 - 10 V DC, -10 - +10 V DC, 0/4 - 20 mA         |
| Analog outputs                 |                |   | 2, parameterizable, 0 - 10 V, 0/4 - 20 mA                                         |
| Digital inputs                 |                |   | 8, parameterizable, max. 30 V DC                                                  |
| Digital outputs                |                |   | 1, parameterizable, 24 V DC                                                       |
| Relay outputs                  |                |   | 3, parameterizable, 2 changeover contacts and 1 N/O, 6 A (240 VAC) / 6 A (24 VDC) |
| Interface/field bus (built-in) |                |   | Modbus RTU, Modbus TCP, BACnet MS/TP, Ethernet IP                                 |
| Expansion slots                |                |   | 2                                                                                 |

## Assigned switching and protective elements

|                                               |  |   |                                   |
|-----------------------------------------------|--|---|-----------------------------------|
| Power Wiring                                  |  |   |                                   |
| IEC (Type B, gG), 150 %                       |  |   | PKZM0-12                          |
| Safety device (110% overload)                 |  |   | PKM0-16                           |
| UL (Class CC or J)                            |  | A | 20                                |
| 150 % overload (CT/I <sub>H</sub> , at 50 °C) |  |   | Integrated DC link choke, uk = 5% |
| 110 % overload (VT/I <sub>L</sub> , at 40 °C) |  |   | Integrated DC link choke, uk = 5% |
| Motor feeder                                  |  |   |                                   |
| 150 % overload (CT/I <sub>H</sub> , at 50 °C) |  |   | DX-LM3-016                        |
| 110 % overload (VT/I <sub>L</sub> , at 40 °C) |  |   | DX-LM3-016                        |

|                                               |  |  |              |
|-----------------------------------------------|--|--|--------------|
| 150 % overload (CT/I <sub>H</sub> , at 50 °C) |  |  | DX-SIN3-016  |
| 110 % overload (VT/I <sub>L</sub> , at 40 °C) |  |  | DX-SIN3-016  |
| 10 % Einschaltdauer (ED)                      |  |  | DX-BR047-3K1 |
| 20 % duty factor (DF)                         |  |  | DX-BR047-5K1 |
| 40 % duty factor (DF)                         |  |  | DX-BR047-9K2 |

## Design verification as per IEC/EN 61439

|                                                                                                                        |                  |    |                                                                                                                                  |
|------------------------------------------------------------------------------------------------------------------------|------------------|----|----------------------------------------------------------------------------------------------------------------------------------|
| Technical data for design verification                                                                                 |                  |    |                                                                                                                                  |
| Rated operational current for specified heat dissipation                                                               | I <sub>n</sub>   | A  | 12                                                                                                                               |
| Equipment heat dissipation, current-dependent                                                                          | P <sub>vid</sub> | W  | 121                                                                                                                              |
| Operating ambient temperature min.                                                                                     |                  | °C | -30                                                                                                                              |
| Operating ambient temperature max.                                                                                     |                  | °C | 60                                                                                                                               |
| IEC/EN 61439 design verification                                                                                       |                  |    |                                                                                                                                  |
| 10.2 Strength of materials and parts                                                                                   |                  |    |                                                                                                                                  |
| 10.2.2 Corrosion resistance                                                                                            |                  |    | Meets the product standard's requirements.                                                                                       |
| 10.2.3.1 Verification of thermal stability of enclosures                                                               |                  |    | Meets the product standard's requirements.                                                                                       |
| 10.2.3.2 Verification of resistance of insulating materials to normal heat                                             |                  |    | Meets the product standard's requirements.                                                                                       |
| 10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects |                  |    | Meets the product standard's requirements.                                                                                       |
| 10.2.4 Resistance to ultra-violet (UV) radiation                                                                       |                  |    | Meets the product standard's requirements.                                                                                       |
| 10.2.5 Lifting                                                                                                         |                  |    | Does not apply, since the entire switchgear needs to be evaluated.                                                               |
| 10.2.6 Mechanical impact                                                                                               |                  |    | Does not apply, since the entire switchgear needs to be evaluated.                                                               |
| 10.2.7 Inscriptions                                                                                                    |                  |    | Meets the product standard's requirements.                                                                                       |
| 10.3 Degree of protection of ASSEMBLIES                                                                                |                  |    | Does not apply, since the entire switchgear needs to be evaluated.                                                               |
| 10.4 Clearances and creepage distances                                                                                 |                  |    | Meets the product standard's requirements.                                                                                       |
| 10.5 Protection against electric shock                                                                                 |                  |    | Does not apply, since the entire switchgear needs to be evaluated.                                                               |
| 10.6 Incorporation of switching devices and components                                                                 |                  |    | Does not apply, since the entire switchgear needs to be evaluated.                                                               |
| 10.7 Internal electrical circuits and connections                                                                      |                  |    | Is the panel builder's responsibility.                                                                                           |
| 10.8 Connections for external conductors                                                                               |                  |    | Is the panel builder's responsibility.                                                                                           |
| 10.9 Insulation properties                                                                                             |                  |    |                                                                                                                                  |
| 10.9.2 Power-frequency electric strength                                                                               |                  |    | Is the panel builder's responsibility.                                                                                           |
| 10.9.3 Impulse withstand voltage                                                                                       |                  |    | Is the panel builder's responsibility.                                                                                           |
| 10.9.4 Testing of enclosures made of insulating material                                                               |                  |    | Is the panel builder's responsibility.                                                                                           |
| 10.10 Temperature rise                                                                                                 |                  |    | The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices. |
| 10.11 Short-circuit rating                                                                                             |                  |    | Is the panel builder's responsibility. The specifications for the switchgear must be observed.                                   |
| 10.12 Electromagnetic compatibility                                                                                    |                  |    | Is the panel builder's responsibility. The specifications for the switchgear must be observed.                                   |
| 10.13 Mechanical function                                                                                              |                  |    | The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.                         |

## Technical data ETIM 6.0

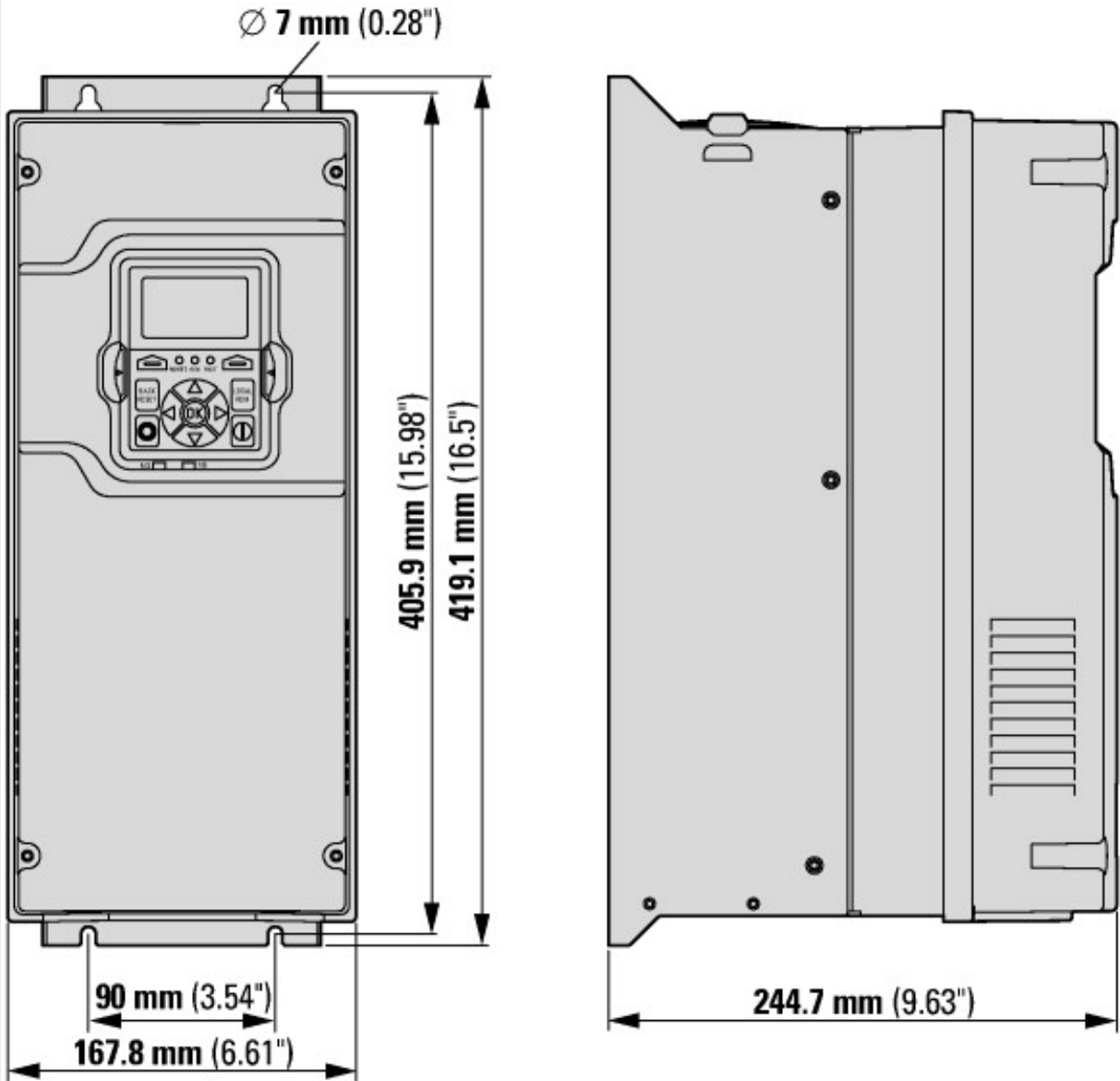
|                                                                                                                                                                                         |    |  |           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|--|-----------|
| Low-voltage industrial components (EG000017) / Frequency converter =< 1 kV (EC001857)                                                                                                   |    |  |           |
| Electric engineering, automation, process control engineering / Electrical drive / Static frequency converter / Static frequency converter = < 1 kv (ecI@ss8.1-27-02-31-01 [AKE177011]) |    |  |           |
| Mains voltage                                                                                                                                                                           | V  |  | 380 - 480 |
| Mains frequency                                                                                                                                                                         |    |  | 50/60 Hz  |
| Number of phases input                                                                                                                                                                  |    |  | 3         |
| Number of phases output                                                                                                                                                                 |    |  | 3         |
| Max. output frequency                                                                                                                                                                   | Hz |  | 400       |
| Max. output voltage                                                                                                                                                                     | V  |  | 480       |
| Rated output current I2N                                                                                                                                                                | A  |  | 16        |
| Max. output at quadratic load at rated output voltage                                                                                                                                   | kW |  | 7.5       |
| Max. output at linear load at rated output voltage                                                                                                                                      | kW |  | 11        |
| With control unit                                                                                                                                                                       |    |  | 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                 |  |    | 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 PROFIsafe                   |  |    | 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 PROFINET                    |  |    | 1           |
| 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        |
| Height                                              |  | mm | 419         |
| Width                                               |  | mm | 169         |
| Depth                                               |  | mm | 244         |
| Relative symmetric net frequency tolerance          |  | %  | 10          |
| Relative symmetric net current tolerance            |  | %  | 10          |

## Approvals

|                             |  |  |                                                                        |
|-----------------------------|--|--|------------------------------------------------------------------------|
| Product Standards           |  |  | UL508C, CSA-C22.2 No. 274-13; IEC/EN61800-3; IEC/EN61800-5; CE marking |
| UL File No.                 |  |  | E134360                                                                |
| UL Category Control No.     |  |  | NMMS, NMMS7                                                            |
| CSA File No.                |  |  | UL report applies to both US and Canada                                |
| North America Certification |  |  | UL listed, certified by UL for use in Canada                           |
| Suitable for                |  |  | Branch circuits                                                        |
| Max. Voltage Rating         |  |  | 3~ 500 V AC IEC: TN-S UL/CSA: 'Y' (Solidly Grounded Wey)               |
| Degree of Protection        |  |  | IP54/NEMA12                                                            |

Dimensions



Additional product information (links)

|                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MN040002 PowerXL DG1 Series VFD, Installation Manual</b>          |                                                                                                                                                                                                                                                                                                                                                                                                                           |
| MN040002 PowerXL DG1 Serie VFD, Handbuch Installation - Deutsch      | <a href="ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN040002_DE.pdf">ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN040002_DE.pdf</a>                                                                                                                                                                                                                                                                             |
| MN040002 PowerXL DG1 Series VFD, Installation Manual - English       | <a href="ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN040002_EN.pdf">ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN040002_EN.pdf</a>                                                                                                                                                                                                                                                                             |
| MN040002 EFV PowerXL série DG1, Manuel d'installation - français     | <a href="ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN040002_FR.pdf">ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN040002_FR.pdf</a>                                                                                                                                                                                                                                                                             |
| MN040002 Serie VFD PowerXL DG1, Manuale di installazione - italiano  | <a href="ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN040002_IT.pdf">ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN040002_IT.pdf</a>                                                                                                                                                                                                                                                                             |
| MN040002 Napęd VFD PowerXL serii DG1, Podręcznik instalacji - polski | <a href="ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN040002_PL.pdf">ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN040002_PL.pdf</a>                                                                                                                                                                                                                                                                             |
| <b>MN040004 PowerXL DG1 Series VFD, Application Manual</b>           |                                                                                                                                                                                                                                                                                                                                                                                                                           |
| MN040004 PowerXL DG1 Serie VFD, Handbuch Applikation - Deutsch       | <a href="ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN040004_DE.pdf">ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN040004_DE.pdf</a>                                                                                                                                                                                                                                                                             |
| MN040004 EFV PowerXL série DG1, Manuel d'application - français      | <a href="ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN040004_FR.pdf">ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN040004_FR.pdf</a>                                                                                                                                                                                                                                                                             |
| MN040004 Serie VFD PowerXL DG1, Manuale applicativo - italiano       | <a href="ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN040004_IT.pdf">ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN040004_IT.pdf</a>                                                                                                                                                                                                                                                                             |
| MN040004 Napęd VFD PowerXL serii DG1, Podręcznik aplikacji - polski  | <a href="ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN040004_PL.pdf">ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN040004_PL.pdf</a>                                                                                                                                                                                                                                                                             |
| Documentation                                                        | <a href="http://www.eaton.eu/Europe/Electrical/ProductsServices/AutomationControl/SwitchingProtectingDrivingMotors/PowerXLfrequencydrives/DG1GeneralPurposeDrives/index.htm?wtredirect=www.eaton.eu/dg1#tabs-7">http://www.eaton.eu/Europe/Electrical/ProductsServices/AutomationControl/SwitchingProtectingDrivingMotors/PowerXLfrequencydrives/DG1GeneralPurposeDrives/index.htm?wtredirect=www.eaton.eu/dg1#tabs-7</a> |
| Manuals                                                              | <a href="http://www.eaton.eu/Europe/Electrical/ProductsServices/AutomationControl/SwitchingProtectingDrivingMotors/PowerXLfrequencydrives/DG1GeneralPurposeDrives/index.htm?wtredirect=www.eaton.eu/dg1#tabs-8">http://www.eaton.eu/Europe/Electrical/ProductsServices/AutomationControl/SwitchingProtectingDrivingMotors/PowerXLfrequencydrives/DG1GeneralPurposeDrives/index.htm?wtredirect=www.eaton.eu/dg1#tabs-8</a> |

