



Variable frequency drives, 3p, 400 V, 12A, 5.5kW

Part no. MMX34AA012F0-0
Article no. 121405
Catalog No. MMX34AA012F0-0

Delivery programme

| | | | |
|--|----------|----|---|
| Product range | | | M-MAX (MMX) |
| Rated operational voltage | | | 3 AC 400 V |
| Mains voltage (50/60Hz) | U_{LN} | V | 380 (-15%) - 480 (+10%) |
| Assigned motor rating | | | |
| at 400 V, 50 Hz | P | kW | 5.5 |
| | | | Rated operational current at an operating frequency of 6 kHz and an ambient air temperature of +50 °C |
| at 460 V, 60 Hz | P | HP | 7.5 |
| | | | Assigned motor rating for normal internally and externally ventilated 4 pole, three-phase asynchronous motors with 1500 rpm ⁻¹ (at 50 Hz) or 1800 min ⁻¹ (at 60 Hz) |
| Rated operational current | I_e | A | 12 |
| Rated motor current | | | |
| at 400 V, 50 Hz | I_e | A | 11.3 |
| at 440 - 480 V, 60 Hz | I_e | A | 11 |
| Radio interference suppression filters | | | with internal radio interference suppression filters |
| Degree of Protection | | | IP20/NEMA 0 |
| Brake chopper | | | with internal brake chopper |
| Frame size | | | FS3 |
| Notes | | | |
| Cross-reference Increased protection type IP21/NEMA 1, → Accessories | | | |

Technical data

Power section

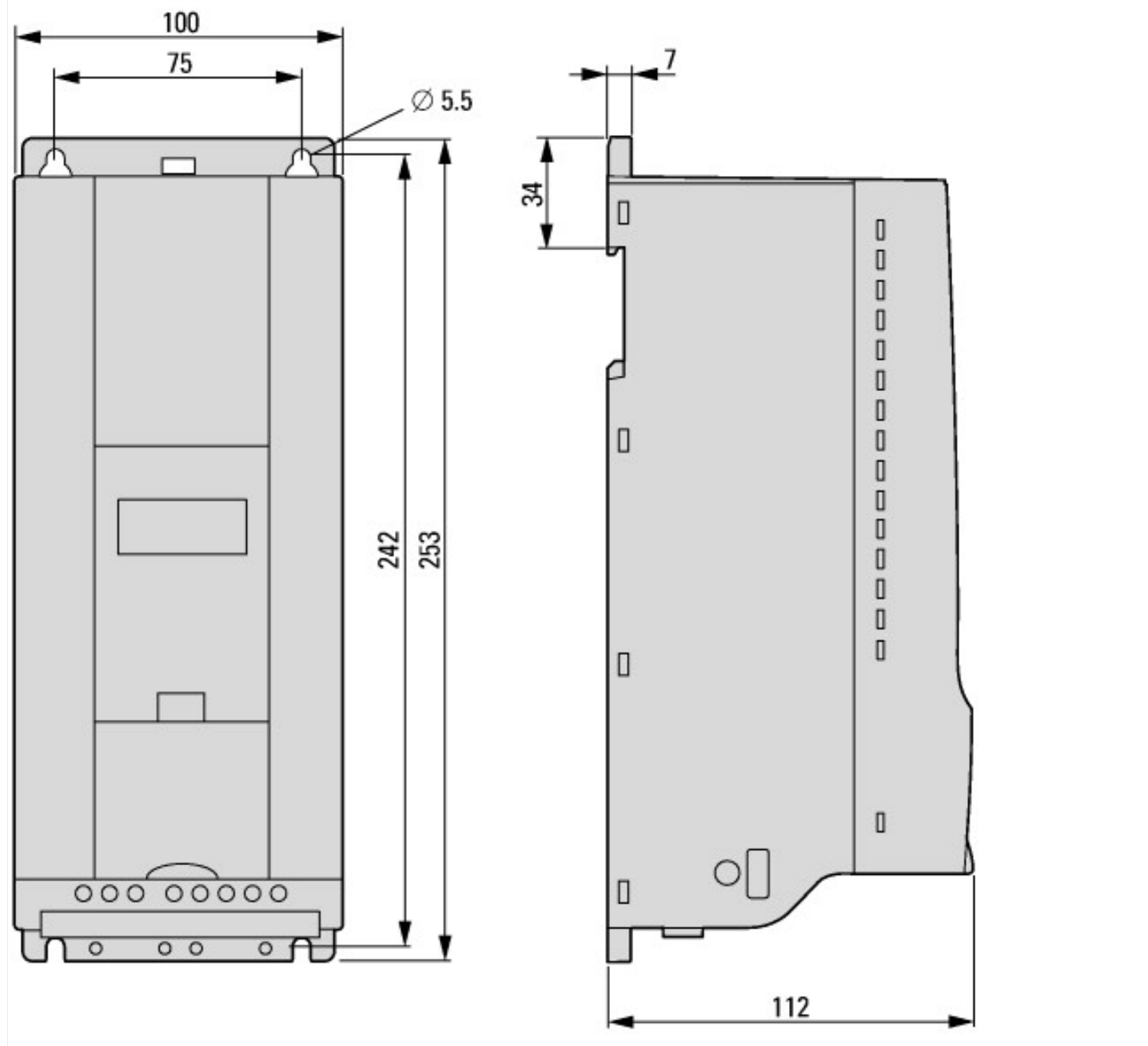
| | | | |
|--|-----------|-----|--|
| Input side | | | |
| Number of phases | | | three-phase (e.g. L1, L2, L3) |
| Mains voltage (50/60Hz) | U_{LN} | V | 380 (-15%) - 480 (+10%) |
| Mains voltage UL/CSA (45-66 Hz ± 0%) | U_{LN} | V | 323 - 528 (±0%) |
| Rated operational voltage | | | 3 AC 400 V |
| Rated operational current | I_e | A | 12 |
| Input current | I_{LN} | T | 14.9 |
| Overload current for 60 s every 600 s at 50 °C | | T | 18 |
| Starting current for 2 s every 20 s at 50 °C | | T | 24 |
| Maximum leakage current to ground (PE) without motor | I_{PE} | mA | 24.9 |
| Apparent power | | | |
| Apparent power at rated operation 400 V | S | kVA | 8.32 |
| Apparent power at rated operation 480 V | S | kVA | 9.98 |
| Assigned motor rating | | | |
| at 400 V, 50 Hz | P | kW | 5.5 |
| at 460 V, 60 Hz | P | HP | 7.5 |
| Braking torque | | | |
| Standard braking torque | | | max. 30 % M_N |
| DC braking torque | | | max. 100% of rated operational current I_e , variable |
| Braking torque with external braking resistance | | | max. 100% rated operational current I_e , with external braking resistance |
| minimum external braking resistance | R_{min} | Ω | 35 |

| | | | |
|--|------------------|------|--|
| Switch-on threshold for the braking transistor | U _{DC} | V DC | 765 |
| Switching frequency | f _{PWM} | kHz | 6 adjustable 1 - 16 (real) |
| Heat dissipation at rated operational current | P _V | W | 185.1 |
| Efficiency | | % | 97 |
| Fitted with | | | Fan (internal, temperature controlled) |
| Frame size | | | FS3 |
| Weight | m | kg | 0,990 |

Approvals

| | | | |
|--------------------------------------|--|--|---|
| Product Standards | | | UL 508C; CSA-C22.2 No. 14; 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 |
| CSA Class No. | | | 3211-06 |
| North America Certification | | | UL listed, certified by UL for use in Canada |
| Specially designed for North America | | | No |
| Suitable for | | | Branch circuits |
| Max. Voltage Rating | | | 3~ 480 V AC IEC: TN-S UL/CSA: "Y" (Solidly Grounded Wey) |
| Degree of Protection | | | IEC: IP20; optionally UL/CSA NEMA 1 |

Dimensions



Additional product information (links)

IL04020006Z MMX adjustable frequency drives, size 1, 2 and 3

[IL04020006Z MMX adjustable frequency drives, size 1, 2 and 3](#)

MN04020001Z M-Max variable frequency drive, manual

[MN04020001Z Frequenzumrichter M-Max, Handbuch - Deutsch](#)

[MN04020001Z M-Max variable frequency drive, manual - English](#)

[MN04020001Z Convertisseurs de fréquence M-Max, manuel - français](#)

[MN04020001Z Frekvenční měnič M-Max, manuál - čeština](#)

[MN04020001Z Convertitori di frequenza M-Max, manuale - italiano](#)

[MN04020001Z Przemiennek częstotliwości M-Max, podręcznik - polski](#)

[MN04020001Z M-Max variable frequency drive, manual - русский](#)