



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

**Part no.** MMX34AA012N0-0  
**Article no.** 122682  
**Catalog No.** MMX34AA012N0-0

### Delivery program

Product range			M-MAX (MMX)
Rated operational voltage			3 AC 400 V
Mains voltage (50/60Hz)	$U_{LN}$	V	380 (-15%) - 480 (+10%)
<b>Assigned motor rating</b>			
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 <sup>-1</sup> (at 50 Hz) or 1800 min <sup>-1</sup> (at 60 Hz)
Rated operational current	$I_e$	A	12
<b>Rated motor current</b>			
at 400 V, 50 Hz	$I_M$	A	11.3
at 440 - 480 V, 60 Hz	$I_M$	A	11
Radio interference suppression filters			without internal radio interference suppression filter
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

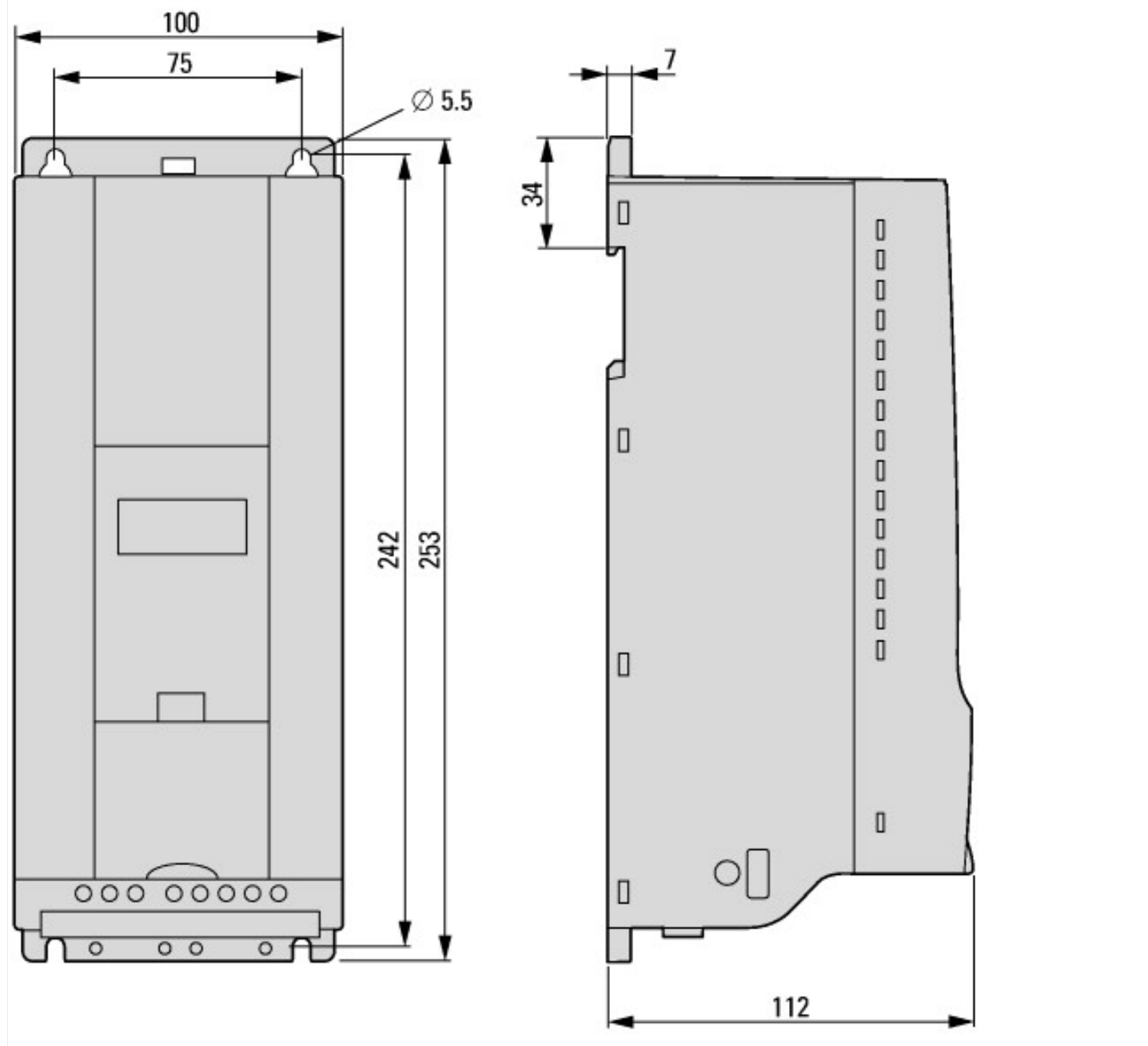
Input side			
Number of phases			three-phase (e.g. L1, L2, L3)
Mains voltage (50/60Hz)	$U_{LN}$	V	380 (-15%) - 480 (+10%)
Mains voltage UL/CSA (45-66 Hz ± 0%)	$U_{LN}$	V	323 - 528 (±0%)
Rated operational voltage			3 AC 400 V
Rated operational current	$I_e$	A	12
Input current	$I_{LN}$	T	14.9
Overload 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% of rated operational current $I_e$ with external braking resistor
minimum external braking resistance	$R_{min}$	Ω	35

Switch-on threshold for the braking transistor	U <sub>DC</sub>	V DC	765
Switching frequency	f <sub>PWM</sub>	kHz	6 adjustable 1 - 16
Heat dissipation at rated operational current I <sub>e</sub> =150 %	P <sub>V</sub>	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, [ftp://ftp.moeller.net/DOCUMENTATION/AWA\\_INSTRUCTIONS/IL04020006Z2011\\_06.pdf](ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL04020006Z2011_06.pdf)  
size 1, 2 and 3

### MN04020001Z M-Max variable frequency drive, manual

MN04020001Z Frequenzumrichter M-Max, Handbuch - Deutsch [ftp://ftp.moeller.net/DOCUMENTATION/AWB\\_MANUALS/MN04020001Z\\_DE.pdf](ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN04020001Z_DE.pdf)

MN04020001Z M-Max variable frequency drive, manual - English [ftp://ftp.moeller.net/DOCUMENTATION/AWB\\_MANUALS/MN04020001Z\\_EN.pdf](ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN04020001Z_EN.pdf)

MN04020001Z Convertisseurs de fréquence M-Max, manuel - français [ftp://ftp.moeller.net/DOCUMENTATION/AWB\\_MANUALS/MN04020001Z\\_FR.pdf](ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN04020001Z_FR.pdf)

MN04020001Z Frekvenční měnič M-Max, manuál - čeština [ftp://ftp.moeller.net/DOCUMENTATION/AWB\\_MANUALS/MN04020001Z\\_CZ.pdf](ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN04020001Z_CZ.pdf)

MN04020001Z Convertitori di frequenza M-Max, manuale - italiano [ftp://ftp.moeller.net/DOCUMENTATION/AWB\\_MANUALS/MN04020001Z\\_IT.pdf](ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN04020001Z_IT.pdf)

MN04020001Z Przemiennik częstotliwości M-Max, podręcznik - polski [ftp://ftp.moeller.net/DOCUMENTATION/AWB\\_MANUALS/MN04020001Z\\_PL.pdf](ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN04020001Z_PL.pdf)

MN04020001Z M-Max variable frequency drive, manual - русский [ftp://ftp.moeller.net/DOCUMENTATION/AWB\\_MANUALS/MN04020001Z\\_RU.pdf](ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN04020001Z_RU.pdf)