



Freq.inv.,3ph (230V, 11A; 2.2kW) w/o filter

Part no. **MMX32AA011N0-0**
 Article no. **122673**
 Catalog No. **MMX32AA011N0-0**

Delivery programme

Product range			M-MAX (MMX)
Rated operational voltage			3 AC 230 V
Mains voltage (50/60Hz)	U_{LN}	V	208 (-15%) - 240 (+10%)
Assigned motor rating			
at 230 V, 50 Hz	P	kW	2.2
			Rated operational current at an operating frequency of 6 kHz and an ambient air temperature of +50 °C
at 230 V, 60 Hz	P	HP	3
			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	11
Rated motor current			
at 230 V, 50 Hz	I_e	A	8.7
at 440 - 480 V, 60 Hz	I_e	A	6.8
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

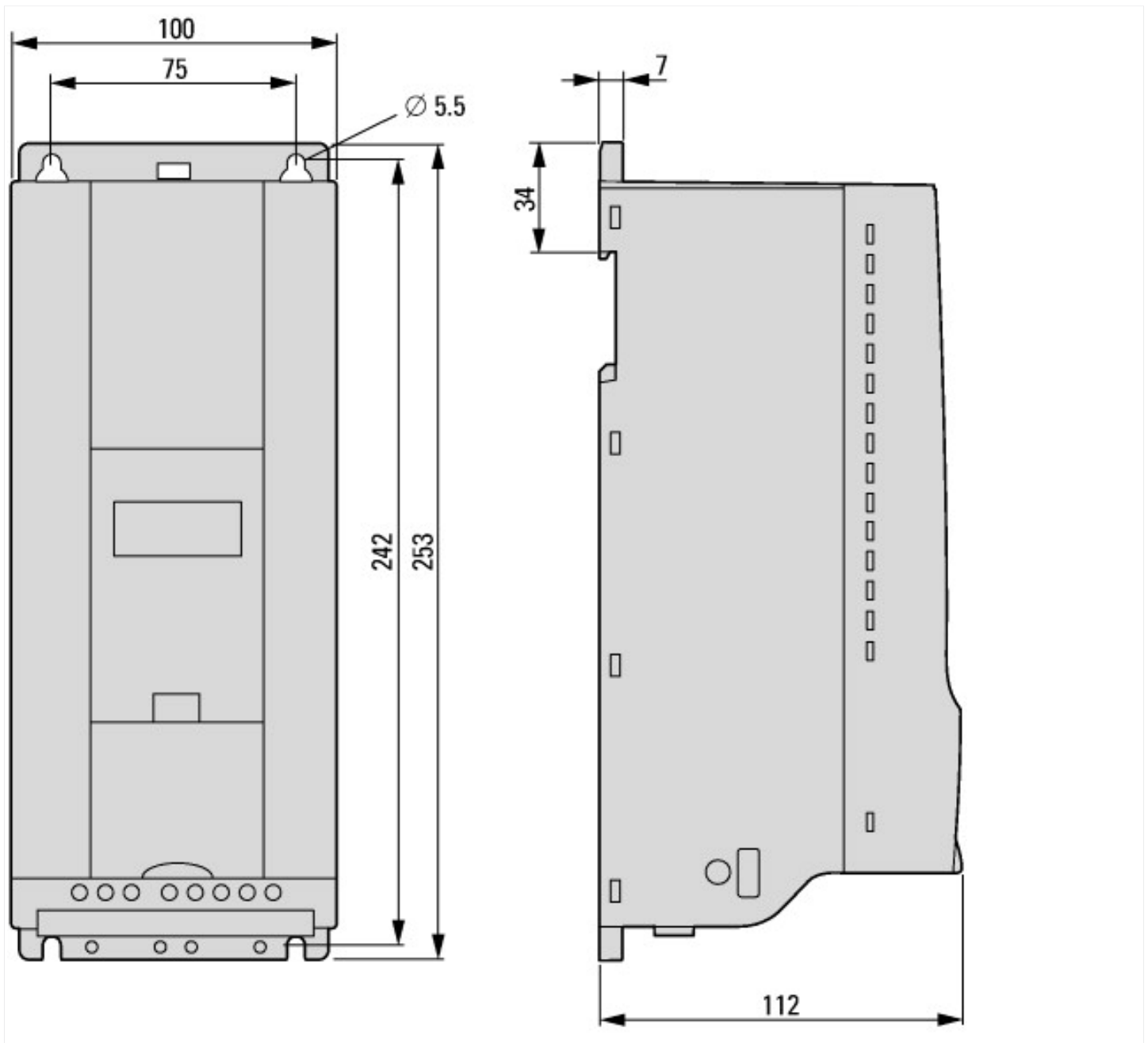
Input side			
Number of phases			three-phase (e.g. L1, L2, L3)
Mains voltage (50/60Hz)	U_{LN}	V	208 (-15%) - 240 (+10%)
Mains voltage UL/CSA (45-66 Hz ± 0%)	U_{LN}	V	177 - 264 (±0%)
Rated operational voltage			3 AC 230 V
Rated operational current	I_e	A	11
Input current	I_{LN}	T	13.4
Overload current for 60 s every 600 s at 50 °C		T	14.4
Starting current for 2 s every 20 s at 50 °C		T	19.2
Maximum leakage current to ground (PE) without motor	I_{PE}	mA	8.6
Apparent power			
Apparent power at rated operation 230 V	S	kVA	3.82
Apparent power at rated operation 240 V	S	kVA	3.99
Assigned motor rating			
at 230 V, 50 Hz	P	kW	2.2
at 230 V, 60 Hz	P	HP	3
Braking torque			
Standard braking torque			max. 30 % M_N
DC braking torque			max. 100% of rated operational current I_e , variable
Switching frequency	f_{PWM}	kHz	6 adjustable 1 - 16 (real)
Heat dissipation at rated operational current	P_V	W	84

Efficiency		%	96
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- 240 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 Przemiennik częstotliwości M-Max, podręcznik - polski
	MN04020001Z M-Max variable frequency drive, manual - русский