Variable frequency drives, 1p, 230 V, 2.8A, 0.55kW

Part no. MMX12AA2D8F0-0
Article no. 121365
Catalog No. MMX12AA2D8F0-0

Powering Business Worldwide

Delivery programme

Product range			M-MAX (MMX)
Rated operational voltage			1 AC 230 V
Mains voltage (50/60Hz)	U_{LN}	V	208 (-15%) - 240 (+10%)
Assigned motor rating			
at 230 V, 50 Hz	P	kW	0.55
			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	0.5
			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	2.8
Rated motor current			
at 230 V, 50 Hz	I_e	A	2.7
at 220 - 240 V, 60 Hz	I_e	A	2.2
Radio interference suppression filters			with internal radio interference suppression filters
Degree of Protection			IP20/NEMA 0
Brake chopper			without internal brake chopper
Frame size			FS1
Notes			
Cross-reference Increased protection type IP21/NEMA 1, → Accessories			

Technical data

Power section

Input side			
Number of phases			single-phase (L, N) two-phase (e.g. L1, L2)
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			1 AC 230 V
Rated operational current	I_e	A	2.8
Input current	I_{LN}	T	6.6
Overload current for 60 s every 600 s at 50 °C		T	4.2
Starting current for 2 s every 20 s at 50 °C		T	5.6
Maximum leakage current to ground (PE) without motor	I_{PE}	mA	15.4
Apparent power			
Apparent power at rated operation 230 V	S	kVA	1.12
Apparent power at rated operation 240 V	S	kVA	1.16
Assigned motor rating			
at 230 V, 50 Hz	P	kW	0.55
at 230 V, 60 Hz	P	HP	0.5
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	29.2

Efficiency		%	95
Fitted with			Fan (internal, temperature controlled)
Frame size			FS1
Weight	m	kg	0,500

Technical data ETIM 5.0

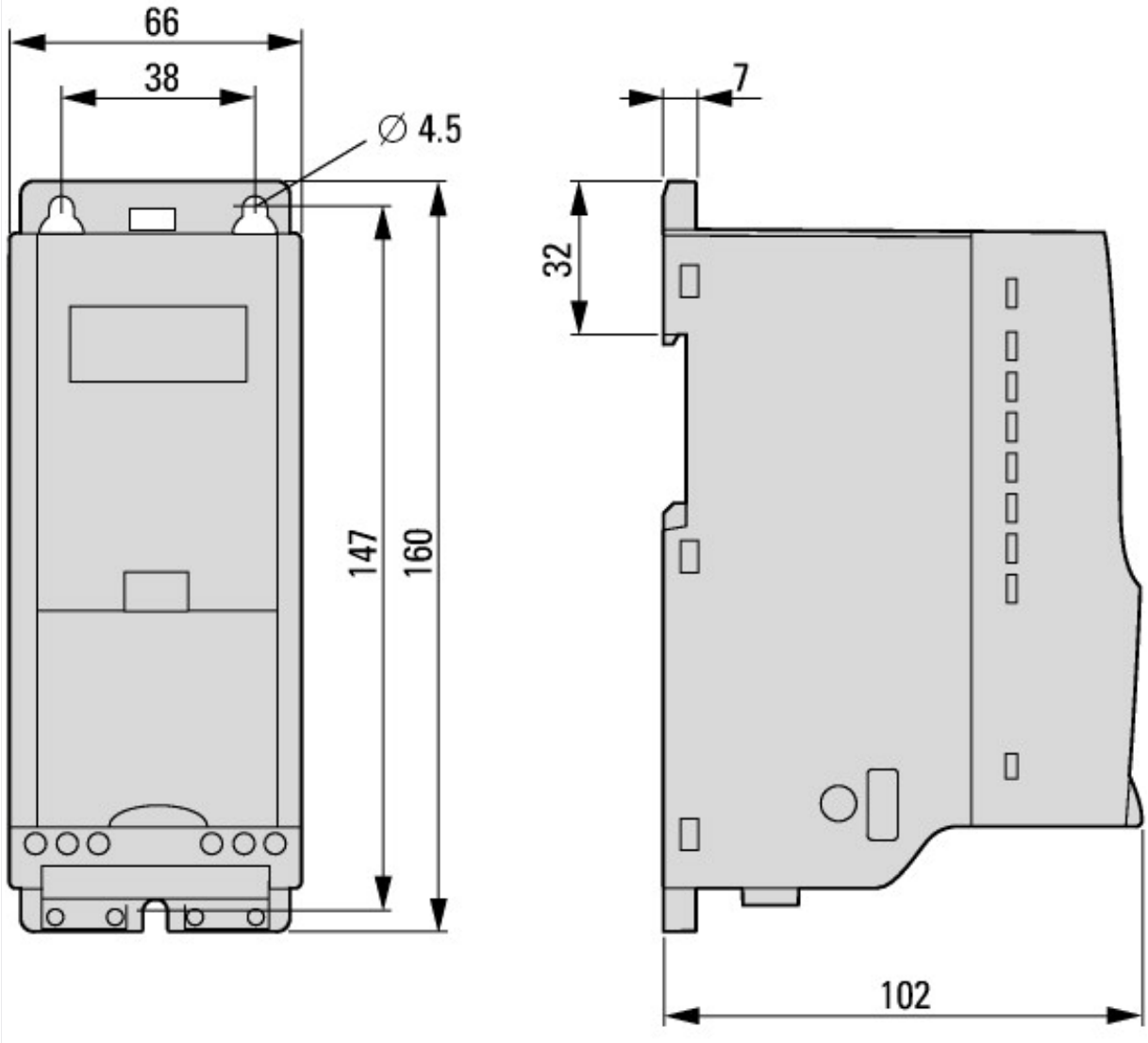
Low-voltage industrial components (EG000017) / Frequency controller =< 1 kV (EC001857)			
Electric engineering, automation, process control engineering / Electrical drive / Static frequency converter / Static frequency converter = < 1 kv (ecl@ss8-27-02-31-01 [AKE177010])			
Mains voltage		V	177 - 264
Mains frequency			50/60 Hz
Number of phases input			1
Number of phases output			3
Max. output frequency		Hz	320
Rated output voltage		V	230
Measuring output current		A	2.8
Output power at rated output voltage		kW	0.55
Max. output at quadratic load at rated output voltage		kW	0.55
Max. output at linear load at rated output voltage		kW	0.55
With control unit			Yes
Application in industrial area permitted			Yes
Application in domestic- and commercial area permitted			Yes
Supporting protocol for TCP/IP			No
Supporting protocol for PROFIBUS			No
Supporting protocol for CAN			No
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			No
Supporting protocol for SUCONET			No
Supporting protocol for LON			No
Supporting protocol for PROFINET IO			No
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			No
Number of HW-interfaces industrial Ethernet			0
Number of HW-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			0
With optical interface			No
With PC connection			Yes
Integrated braking resistance			No

4-quadrant operation possible		No
Type of converter		U converter
Degree of protection (IP)		IP20
Height	mm	157
Width	mm	66
Depth	mm	99
Relative symmetric net frequency tolerance	%	0
Relative symmetric net current tolerance	%	0

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	1~ 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