

Variable Frequency Drives

High performance, cost-effective VFDs, ideal for both machines & process control

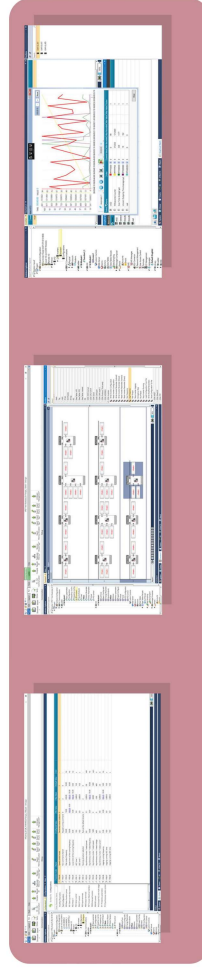
- Simple to use • Robust • Broad power & voltage range •

Features

- Options for both VFDs from 0.4 kW and up to 110 kW
- EMI Filters, Built-In
- Voltage Range: 220V - 480V
- Braking units - Built-in
- Heavy-Duty overload capacity, up to 200%
- Wide horsepower range: 0.5hp-150hp
- Coated PCBs: minimize dust penetration damage
- RS485: Modbus RTU Fieldbus
- Built-in Sensorless Control: Vector, Torque, Volts per Hz
- Safe Torque Off (STO)
- Mounting options: Wall, Flange, Rail
- Optional communication and I/O extension
- UL approved, TÜV-SÜD Safety and CE Certified



Use as a stand-alone product, or as part of a complete All-in-One package with our controllers



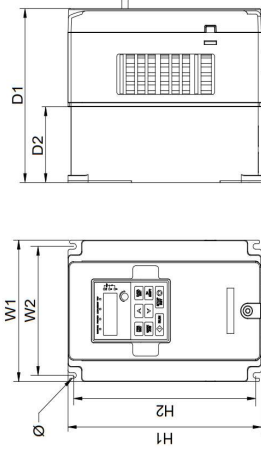
Product Specifications

	UMI-B1 EU	UMI-B5 UL
Power	Input Voltage	200-240VAC, Single Phase 380-440VAC, Three Phase
	Input Frequency	50/60Hz
	Supported Motors	Asynchronous Induction Motors, Three Phase Input Permanent Magnet Synchronous Motors, Three Phase Input
	Output Frequency	0-400Hz
Overload Capacity		150%, 60 seconds
		180%, 10 seconds
		200%, 1 second
Control	Control Method	SVPWM (Space Vector PWM) SVC (Sensorless Vector Control)
	Control Setting	MODBUS, Analog, Digital, PID, Pulse
	Communication	MODBUS RTU RS-485
Keypad		Film Keypad: <4kW (5HP) Removable: >4kW (5HP)
		Removable: All power range
Analog Inputs		Total 2: 1 input 0-10V, 0-20mA 1 input 0-10V
		Total 3: 2 inputs 0-10V, 0-20mA 1 input 0-10V
Digital Inputs		Total 5: 4 inputs 1kHz 1 input 50kHz
		Total 9: 8 inputs 1kHz 1 input 50kHz
Analog Outputs		Up to 2: 1 output 0-10V, 0-20mA <2.2kW/3HP, (2nd output available from >2.2kW/3HP)
		2 outputs 0-10V, 0-20mA
Digital Outputs		1 output sink/source
		Total 2: 1 output sink/source, 1 output 50kHz
Dynamic Braking Unit		Built-in (<37kW/50HP)
		Optional (>37kW/50HP)
EMC		Built-in C3 (>4kW/5HP), Comply with IEC/EN 61800-3
		Optional C3 (<4kW/5HP), Comply with IEC/EN 61800-3
		Optional C2, Comply with IEC/EN 61800-3
Operating Temperature		(-10)°C/14°F - 50°C/122°F (de-rated by 1% for every 1°C/2°F above 40°C/104°F)
	Altitude	2000m/6600 ft (de-rated by 1% for every additional 100m/330ft above 1000m/3300ft)
Enclosure Rating		IP20
	Mounting Options	Wall and Rail (<2.2kW/3HP) Wall and Flange (>2.2kW/3HP)
Cooling		Wall, Flange
		Air-cooling
Safe Torque Off	√	x
Compliance	CE, TÜV-SÜD Safety Mark, UL and cUL	CE, UL and cUL

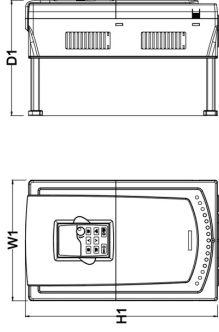
POWER (KW/HP)	Voltage	Part number	Rated Output current (A)	UL & cUL	Safety (TUV SUD)	Permanent Magnet Control	Extended I/Os
0.4\0.5	1Ph 200-240V	UMI-0004BE-B1	2.5	✓	STO	-	-
	1Ph 200-240V	UMI-0007BE-B1	4.2	✓	STO	-	-
0.75\1	3Ph 200-240V	UMI-0007CU-B5	4.5	✓	-	✓	✓
	3Ph 380-480V	UMI-0007EE-B1	2.5	✓	STO	-	-
1.5\2	1Ph 200-240V	UMI-0015BE-B1	7.5	✓	STO	-	-
	3Ph 200-240V	UMI-0015CU-B5	7	✓	-	✓	✓
2.2\3	3Ph 380-480V	UMI-0015EE-B1	4.2	✓	STO	-	-
	3Ph 380-480V	UMI-0015EU-B5	3.7	✓	-	✓	✓
2.2\3	1Ph 200-240V	UMI-0022BE-B1	10	✓	STO	-	-
	3Ph 200-240V	UMI-0022CU-B5	10	✓	-	✓	✓
4\5	3Ph 380-480V	UMI-0022EE-B1	5.5	✓	STO	-	-
	3Ph 380-480V	UMI-0022EU-B5	5	✓	-	✓	✓
5.5\7.5	3Ph 200-240V	UMI-0040CU-B5	16	✓	-	✓	✓
	3Ph 380-480V	UMI-0040EE-B1	9.5	✓	STO	-	-
7.5\10	3Ph 200-240V	UMI-0040EU-B5	9.5	✓	-	✓	✓
	3Ph 380-480V	UMI-0055CU-B5	21	✓	-	✓	✓
7.5\10	3Ph 200-240V	UMI-0055EE-B1	14	✓	STO	-	-
	3Ph 380-480V	UMI-0055EU-B5	14	✓	-	✓	✓
11\15	3Ph 200-240V	UMI-0075CU-B5	30	✓	-	✓	✓
	3Ph 380-480V	UMI-0075EE-B1	18.5	✓	STO	-	-
11\15	3Ph 200-240V	UMI-0075EU-B5	18.5	-	-	✓	✓

POWER (KW/HP)	Voltage	Part number	Rated Output current (A)	UL & cUL	Safety (TUV SUD)	Permanent Magnet Control	Extended I/Os
11\15	3Ph 200-240V	UMI-0110CU-B5	42	✓	-	✓	✓
	3Ph 380-480V	UMI-0110EE-B1	25	✓	STO	-	-
15\20	3Ph 200-240V	UMI-0150CU-B5	55	✓	-	✓	✓
	3Ph 380-440V	UMI-0150EE-B1	32	-	STO	-	-
18.5\25	3Ph 200-240V	UMI-0185CU-B5	70	✓	-	✓	✓
	3Ph 380-440V	UMI-0185EE-B1	38	-	STO	-	-
22\30	3Ph 200-240V	UMI-0220CU-B5	80	✓	-	✓	✓
	3Ph 380-440V	UMI-0220EE-B1	45	-	STO	-	-
30\40	3Ph 200-240V	UMI-0300CU-B5	110	✓	-	✓	✓
	3Ph 380-440V	UMI-0300EE-B1	60	-	STO	-	-
37\50	3Ph 200-240V	UMI-0370CU-B5	130	✓	-	✓	✓
	3Ph 380-440V	UMI-0370EE-B1	75	-	STO	-	-
45\60	3Ph 200-240V	UMI-0450CU-B5	160	✓	-	✓	✓
	3Ph 380-440V	UMI-0450EE-B1	92	-	STO	-	-
55\75	3Ph 200-240V	UMI-0550CU-B5	200	✓	-	✓	✓
	3Ph 380-440V	UMI-0550EE-B1	115	-	STO	-	-
75\100	3Ph 200-240V	UMI-0750CU-B5	215	✓	-	✓	✓
	3Ph 380-440V	UMI-0750EE-B1	150	-	STO	-	-
90\120	3Ph 200-240V	UMI-0900CU-B5	215	✓	-	✓	✓
	3Ph 380-440V	UMI-0900EE-B1	180	-	STO	-	-
110\150	3Ph 200-240V	UMI-1100CU-B5	215	✓	-	✓	✓
	3Ph 380-440V	UMI-1100EE-B1	215	-	STO	-	-

UMI- B1: Drive Dimensions



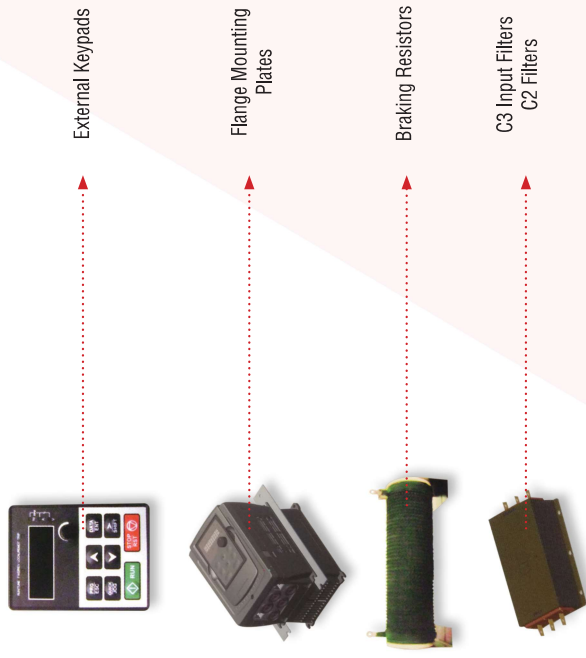
UMI- B5: Drive Dimensions



Model	W1	H1	D1	D2	Weight (kg)
UMI-0004BE-B1					1.2
UMI-0007BE-B1		160	123.5	120.3	0.9
UMI-0004BU-B1					
UMI-0007BU-B1					
UMI-0015BE-B1					
UMI-0022BE-B1					
UMI-0015BU-B1					1.2
UMI-0004CU-B1	80				
UMI-0007CU-B1		185	140.5	137.3	
UMI-0022BU-B1					
UMI-0007EE-B1					
UMI-0015EE-B1					
UMI-0022EE-B1					
UMI-0007EU-B1					1
UMI-0015EU-B1					
UMI-0022EU-B1					
UMI-0040EE-B1	146	256	167	84.5	3.1
UMI-0055EE-B1					
UMI-0075EE-B1	170	320	196.3	113	5.6
UMI-0110EE-B1					5.9
UMI-0150EE-B1					
UMI-0185EE-B1	200	340.6	184.3	104.5	9
UMI-0220EE-B1					
UMI-0300EE-B1	250	400	202	123.5	15.5
UMI-0370EE-B1					
UMI-0450EE-B1	282	560	238	138	25
UMI-0550EE-B1					
UMI-0750EE-B1	338	554	329	-	45
UMI-0900EE-B1					
UMI-1100EE-B1					

Model	W1	H1	D1	Weight (kg)
UMI-0007CU-B5				1.2
UMI-0015EU-B5	126	196	175	2.5
UMI-0022EU-B5				2.5
UMI-0015CU-B5				
UMI-0022CU-B5	146	263	181	4
UMI-0040EU-B5				
UMI-0055EU-B5				
UMI-0040CU-B5				
UMI-0055CU-B5	170	332	216	7
UMI-0750EU-B5				
UMI-0110EU-B5				
UMI-0075CU-B5	230	342	216	8
UMI-0150EU-B5				
UMI-0185EU-B5				
UMI-0110CU-B5				
UMI-0150CU-B5	255	407	245	10
UMI-0220EU-B5				
UMI-0300EU-B5				
UMI-0185CU-B5				
UMI-0220CU-B5				
UMI-0300CU-B5	270	555	325	30
UMI-0370EU-B5				
UMI-0450EU-B5				
UMI-0550EU-B5				
UMI-0370CU-B5				
UMI-0450CU-B5				
UMI-0550CU-B5	325	680	365	47
UMI-0750EU-B5				
UMI-0900EU-B5				
UMI-1100EU-B5				

Optional Parts



Product Designation Key

UMI - 0022	E	U	-	B1
①	②	③	④	⑤

No.	Key	Description
①	Product Line	Unitronics Motion Inverters
②	Power Range	0004:400W/0.5HP 0022:2.2kW/3HP
③	Power Rating	B: 1PH 200V~240V C: 3PH 200V~240V E: 3PH 380V~440V/480V
④	Certification	*UL - UL Certified E - TÜV-SÜD Certified „UL“
⑤	Product series	B1 / B5