



## Sensorless vector control or V/F inverter for AC three-phase induction motors from 0.37 kW to 22.0 kW

- 200-480Vac power supply (three-phase input, three-phase output)
- Fully compatibility with Easy Harmonics, tool for the calculation of current harmonics
- Full compatibility with the "REMOTE DRIVE" software for remote control

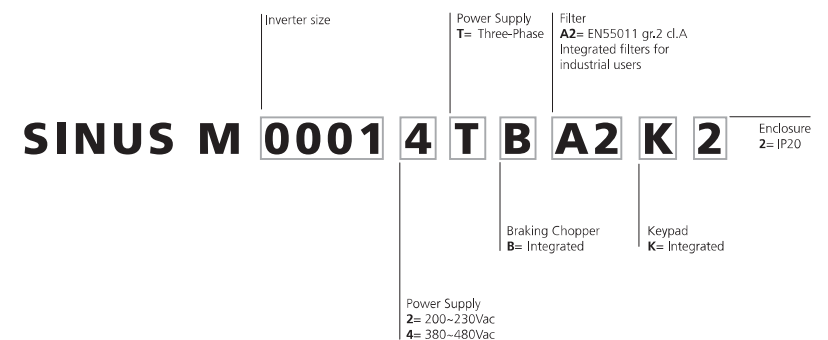
### Technical features & highlights

- Power ranges:
  - 0.37~22 kW 200-230Vac, 3phase
  - 0,37~22 kW 380-480Vac, 3phase
- IP20 enclosure
- Built-in braking unit
- Possibility of connecting a DC choke in sizes 11kW to 22kW
- 2 Control modes: V/F and Sensorless Vector Control
- RS485 serial port with MODBUS RTU protocol
- Remotable smart keyboard
- Overload 150% of In for 60 sec
- Overload 200% for short time span
- Maximum torque 180% Tn
- Maximum output frequency 400Hz
- Anti-stalling and overvoltage trip prevention
- 8 speed sets
- 3 frequency jumps (skip)
- 8 NPN PNP programmable digital inputs
- 2 analog inputs 0-10Vdc and 4-20mA
- 1 programmable open-collector output
- 1 programmable relay output
- 1 analog output 0-10Vdc
- Adjustable carrier 1-15kHz
- Automatic and manual torque boost
- Speed search
- PID function
- "S" ramps
- Fire Mode function
- Draw function
- UP-DOWN function
- 2-phase PWM
- KEB (Kinetic Energy Buffering)
- External brake control
- INTEGRATED INPUT FILTERS, EMC EN61800-3, 2nd edition, FIRST ENVIRONMENT Category C1, EN55011 gr.1 cl. B, for residential and industrial environments

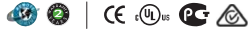
### Options

- Remote keyboard operation kit (3 metres).
- EMC foot print filters EN 55011 Cl. B, public utility, FIRST ENVIRONMENT.
- Braking resistors.
- Relay for open-collector output.
- "Remote Drive" software.
- Converter for MODBUS/Profibus DP-CanBus-Device Net etc.
- RS485/USB converter

### Product selection chart



# SINUS M



Model	Input Voltage	Motor power						Output Inom.	I <sub>max</sub> output 150% (60s)	Output I <sub>peak</sub> 200% (0.5s)	Dimensions	Weight
		200-230 Vac		380-415 Vac		440-460 Vac						
		Vac	kW	HP	kW	HP	kW					
SINUS M 0001 2T BA2K2	3 φ 200 ~ 230V	0,4	0,5	-	-	-	-	2,5	3,8	5	70x128x130	0,76
SINUS M 0002 2T BA2K2	3 φ 200 ~ 230V	0,75-1,1	1-1,5	-	-	-	-	5	7,5	10	70x128x130	0,77
SINUS M 0003 2T BA2K2	3 φ 200 ~ 230V	1,5-1,8	2-2,5	-	-	-	-	8	12	16	100x128x130	1,12
SINUS M 0005 2T BA2K2	3 φ 200 ~ 230V	2,2-3	3-4	-	-	-	-	12	18	24	140x128x155	1,84
SINUS M 0007 2T BA2K2	3 φ 200 ~ 230V	4,0-4,5	5,5-6	-	-	-	-	17	25,5	34	140x128x155	1,89
SINUS M 0011 2T BA2K2	3 φ 200 ~ 230V	5,5	7,5	-	-	-	-	24	36	48	180x220x170	3,66
SINUS M 0014 2T BA2K2	3 φ 200 ~ 230V	7,5-9,2	10-12,5	-	-	-	-	32	48	64	180x220x170	3,66
SINUS M 0017 2T BA2K2	3 φ 200 ~ 230V	11	15	-	-	-	-	46	69	92	235x320x189,5	9
SINUS M 0020 2T BA2K2	3 φ 200 ~ 230V	15	20	-	-	-	-	60	90	120	235x320x189,5	9
SINUS M 0025 2T BA2K2	3 φ 200 ~ 230V	18,5	25	-	-	-	-	74	111	148	260x410x208,5	13,3
SINUS M 0030 2T BA2K2	3 φ 200 ~ 230V	22	30	-	-	-	-	88	132	176	260x410x208,5	13,3
SINUS M 0001 4T BA2K2	3 φ 380 ~ 480V	-	-	0,4	0,5	0,4	0,5	1,25	1,87	2,5	70x128x130	0,76
SINUS M 0002 4T BA2K2	3 φ 380 ~ 480V	-	-	0,75-0,9	1-1,25	0,75-1,1	1-1,5	2,5	3,75	5	70x128x130	0,77
SINUS M 0003 4T BA2K2	3 φ 380 ~ 480V	-	-	1,5	2	1,5-1,8	2-3	4	6	8	100x128x130	1,12
SINUS M 0005 4T BA2K2	3 φ 380 ~ 480V	-	-	2,2	3	2,2-3	3-4	6	9	12	140x128x155	1,84
SINUS M 0007 4T BA2K2	3 φ 380 ~ 480V	-	-	4-4,5	5,5-6	4-4,5	5,5-6	9	13,5	18	140x128x155	1,89
SINUS M 0011 4T BA2K2	3 φ 380 ~ 480V	-	-	5,5	7,5	5,5	7,5	12	18	24	180x220x170	3,66
SINUS M 0014 4T BA2K2	3 φ 380 ~ 480V	-	-	7,5	10	7,5-9,2	10-12,5	16	24	32	180x220x170	3,66
SINUS M 0017 4T BA2K2	3 φ 380 ~ 480V	-	-	11	15	11	15	24	36	48	235x320x189,5	9
SINUS M 0020 4T BA2K2	3 φ 380 ~ 480V	-	-	15	20	15	20	30	45	60	235x320x189,5	9
SINUS M 0025 4T BA2K2	3 φ 380 ~ 480V	-	-	18,5	25	22	30	39	58,5	78	260x410x208,5	13,3
SINUS M 0030 4T BA2K2	3 φ 380 ~ 480V	-	-	22	30	22	30	45	67,5	90	260x410x208,5	13,3

