

240v
CLASS

400v
CLASS

690v
CLASS

Low Voltage Products

Advanced Motor Control, Protection and Monitoring

MOTORTRONICS™

VMX/VMX-SGY

VMX-AGY/VMX-PFE/VMX-HFE

LOW VOLTAGE SOLID STATE SOFT STARTER



MOTORTRONICS™
Solid State AC Motor Control

VMX-AGY Series

The VMX-AGY Series is the only fully integrated, compact, world-class design offering uncompromised power and control capabilities. Integral bypass contactors are standard on all sizes and provide maximum efficiency of panel space while maintaining the Motortronics reputation for being able to soft start most any load.

Operational Voltage	200–600 VAC
Rated Frequency	50–60 Hz \pm 5 Hz
Index Rating	Trip Class 10: 3.5-17: 90-5 (Trip Class 20 & 30 available)
Starts per Hour	Standard - 5 starts/stops per hour With Optional Fan 40 starts/stops per hour
Internally Bypassed Control Supply	Yes Standard - 24 VDC Optional - 110 to 230 VAC
Inputs	2 Digital Inputs, 1 Programmable Standard - 24 VDC Optional - 110 to 230 VAC
Outputs	2 Digital Outputs, 1 Programmable
Overload	Full I2t Motor Overload
Communications	Modbus RTU
IP/NEMA rating	IP20/NEMA Class 1 *with finger guard fitted
Ambient	-20 °C to 40 °C without de-rating
Temperature	60 °C with de-rating
Standards	CE, UL, RCM





Ratings

Model Selection

For standard operating conditions of 40 °C and 1000 m above sea level.

See manual for de-rating and other conditions.

	Trip Class 10	Trip Class 20	Trip Class 30
Rated Starting Capability	3 × Motor Current – 23 secs 3.5 × Motor Current – 17 secs	4 × Motor Current – 19 secs	4 × Motor Current – 29 secs
Typical Applications	Agitator Compressor Rotary Vane Unloaded Scroll Conveyor Unloaded Bow Thruster Zero Pitch Fan Low Inertia or <85A Feeder Screw Lathe Machines Mixer Unloaded Moulding Machine Plastic and Textile Machines Pump Submersible - Centrifugal Submersible - Rotodynamic Saw Band Transformers Voltage Regulators	Compressor Centrifugal Reciprocating Rotary Screw Ball Mill Bow Thruster Loaded Conveyor Loaded Grinder Hammer Mill Mills Flour etc. Mixer Loaded Pelletizers Press, Flywheel Positive Displacement Pump Reciprocating Rotary Pump Jack Rolling Mill Roots Blower Saw Circular Screen Vibrating Tumblers	Crusher* Shredder Wood Chipper Fan* High Inertia or > 85 A * start time > 30 secs

Motor Rating

Ie A	kW		
	230 V	400 V	500 V
17	4	7.5	7.5
22	5.5	11	11
29	7.5	15	15
35	7.5	18.5	22
41	11	22	22
55	15	30	37
66	18.5	37	45
80	22	45	55
106	30	55	75
132	37	75	90
160	45	90	110
195	55	110	132
242	75	132	160
302	90	160	200
361	110	200	250

Select Model	Select Model	Select Model
VMX-AGY- 101	VMX-AGY- 103	VMX-AGY- 105
VMX-AGY- 103	VMX-AGY- 105	VMX-AGY- 107
VMX-AGY- 105	VMX-AGY- 107	VMX-AGY- 109
VMX-AGY- 107	VMX-AGY- 109	VMX-AGY- 111
VMX-AGY- 109	VMX-AGY- 111	VMX-AGY- 113
VMX-AGY- 111	VMX-AGY- 113	VMX-AGY- 201
VMX-AGY- 113	VMX-AGY- 201	VMX-AGY- 203
VMX-AGY- 201	VMX-AGY- 203	VMX-AGY- 205
VMX-AGY- 203	VMX-AGY- 205	VMX-AGY- 207
VMX-AGY- 205	VMX-AGY- 207	VMX-AGY- 209
VMX-AGY- 207	VMX-AGY- 209	VMX-AGY- 301
VMX-AGY- 209	VMX-AGY- 301	VMX-AGY- 303
VMX-AGY- 301	VMX-AGY- 303	VMX-AGY- 305
VMX-AGY- 303	VMX-AGY- 305	—
VMX-AGY- 305	—	—