

# VMX-agility\*\*

Application Driven Compact Soft Starter 200 - 600VAC, 17 - 361A, 3 - 350HP

**IEC Rated Soft Starter** 



OLED

Display Event History with real-time clock

0L

Motor Protection with Thermal Memory Feature

Fire Mode

Continue running to destruction in Emergency Situations 3S Smoo

Smooth start and stop with stable acceleration and deceleration

Connect

2 DI / 2 DO Modbus RTU USB

**Bypass** 

Internal Bypass is Standard on all Sizes

Operation

to choose from

**APPS** 

23 Pre-loaded Applications

to choose from

# VMX-agility™ IEC Compact Soft Starter

# Advanced Product Design Features

# Pre-programmed Application Profiles

## Full Featured – Compact - Application Driven

VMX-agility<sup>™</sup> has been developed to exceed the exacting demands of industrial automation motor control clients. VMX-agility™ delivers stable, structured start and stop ramps for smooth, efficient performance. One standard frame size covers all typical applications from 3 -350 HP at 200 - 600 VAC.



#### **Motor Overload Protection**

Protecting the motor and soft starter in the event of an overload condition at full I<sup>2</sup>t motor overload with intelligent thermal memory retention feature. Continually monitoring overloads to ascertain the reduction in motor heating levels even when VMX-agility™ is in the 'off' state. This is combined with protection and diagnostics giving the operator peace of mind while running the motor.



#### **Event Logging**

VMX-agility™ life event logging is a unique feature that records the last 1600 events to enable fast accurate fault analysis and their resolution. Recording multiple activities including start, stop, top of ramp, faults, application parameters (time, overload level, currents, frequency) and the device information. Event log can be downloaded via USB port or via the VMX-agility commisioning software.



#### **Soft Stopping**

Eliminate Water Hammer with Soft Stop Control. A gradual reduction in the output torque of your pump motor is provided when a stop signal is initiated. Check valves close gently and other fluid system components are no longer subjected to the shock and destructive potential of water hammer.



#### 1. OLED display

Full text messages enabling fast programming and rapid fault finding with no codes and real-time value monitoring. Local display of recent logged events.

#### **Modbus RTU**

Modbus RTU communications as standard. No optional communication cards required.

#### 3. USB Port

log and firmware updates.

USB port for downloading event

## 3S Technology

With 23 pre-programmed applications profiles, the VMX-agility<sup>™</sup> offers a quick and comprehensive commission process. A typical VMX-agility™ setup takes less than 1 minute whereas a comparable competitive product setup could take anywhere from 60 to 120 minutes depending on the application. Access to an advanced setup menu is standard for special application requirements.

#### **Typical Applications**











## **More Design Features**

#### **Control Circuit**

A standard 24 VDC control voltage supply with an optional power module which adapts the digital input voltage to accept a 110-230 VAC signal.

## **Start Delay Feature**

Intentional start delay allowing pump actuators to engage before start.

#### **Lower Panel Production Costs**

The VMX-agility<sup>™</sup> uses one common unit frame size across the voltage range of 200-600 VAC facilitating efficient panel layout and interconnections to reduce material and panel production time.

#### **Loss Reduction**

An integral bypass is initiated at the top of ramp and reduces losses in the soft starter.

#### **Number of Starts**

Fire Mode

External input signal

allowing the motor to

emergency situations.

continue running in

overriding normal controls

Optional cooling fan for heavy duty applications with up to 40 starts per hour.

# Easy to Install and Easy to Wire

#### **Specifications**

Operational Voltage 200 - 600 VAC

**Rated Frequency**  $50 - 60 \text{ Hz} \pm 5 \text{ Hz}$ 

Index Rating Trip Class 10: 3.5-17: 90-5 (Trip Class 20 & 30)

**Starts per Hour Standard** 5 starts/stops per hour (40 with Fan Option)

**Internally Bypassed** Yes

**Screen** OLED

Control Supply Standard 24 VDC

110 to 230 VAC with Power Supply Option

**Inputs** 2 Digital Inputs, 1 Programmable

Overload Full I2t Motor Overload with Memory

Communications Modbus RTU

Full Logging functionality YES

with commisioning software

IP/NEMA rating IP20/NEMA Class 1 (\*with finger guard fitted)

**Ambient Temperature**  $-4^{\circ} \sim 104^{\circ}\text{F} (-20 \sim 40^{\circ}\text{C})$  without de-rating

140°F (60°C) with de-rating

**Standards** CE, UL, RCM

**Languages** English, French, German, Spanish,

Portuguese, Italian

Warranty 2 Years

# **VMX-agility<sup>™</sup> Series**

#### **VMX-agility Options**



**Remote Display Keypad** 

Plug in remote mounting unit keypad mimics the agility™ display and keypad function. IP65/NEMA Class 4X



#### **Power Supply Unit Module**

Unique to VMX-agility<sup>™</sup> this module enables control voltage options in one standard product unit, no need to purchase separate soft starters for different control voltages.



#### Cooling Fan

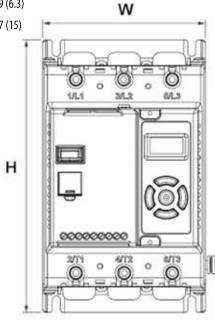
For use in frequent duty applications with up to 40 starts per hour.

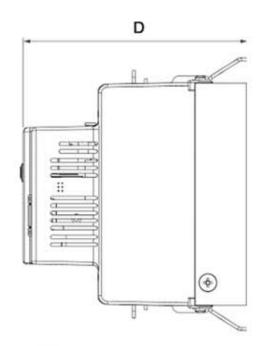
## Rugged - Compact - Versatile

Ratings			Sizing	g Guid	de						
Model Number	Amps		Amps	200V	Nominal 208V	Motor H 240V	IP Rating	g 575V	Trip Class 10 AC-53a 3.5-17: 90-5 <sup>4</sup>	Trip Class 20 AC-53a 4-19: 90-5 <sup>4</sup>	Trip Class 30 AC-53a 4-29: 90-5 <sup>4</sup>
VMX-AGY-101	17	•	17	3	5	5	10	15	-	-	VMX-AGY-101
VMX-AGY-103	22	•	17	3	5	5	10	15	-	VMX-AGY-101	VMX-AGY-103
VMX-AGY-105	27		17	3	5	5	10	15	VMX-AGY-101	VMX-AGY-103	VMX-AGY-105
VMX-AGY-107	34		22	5	5	7.5	15	20	VMX-AGY-103	VMX-AGY-105	VMX-AGY-107
VMX-AGY-109	41		27	7.5	7.5	7.5	20	25	VMX-AGY-105	VMX-AGY-107	VMX-AGY-109
VMX-AGY-111	52	•	34	10	10	10	25	30	VMX-AGY-107	VMX-AGY-109	VMX-AGY-111
VMX-AGY-113	65		41	10	10	10	30	40	VMX-AGY-109	VMX-AGY-111	VMX-AGY-113
VMX-AGY-201	77	•	52	15	15	15	40	50	VMX-AGY-111	VMX-AGY-113	VMX-AGY-201
VMX-AGY-203	100		65	20	20	20	50	60	VMX-AGY-113	VMX-AGY-201	VMX-AGY-203
VMX-AGY-205	125		77	20	25	25	60	75	VMX-AGY-201	VMX-AGY-203	VMX-AGY-205
VMX-AGY-207	156		100	30	30	30	75	100	VMX-AGY-203	VMX-AGY-205	VMX-AGY-207
VMX-AGY-209	192		125	40	40	40	100	125	VMX-AGY-205	VMX-AGY-207	VMX-AGY-209
VMX-AGY-301	242		156	50	50	60	125	150	VMX-AGY-207	VMX-AGY-209	VMX-AGY-301
VMX-AGY-303	302	•	192	60	60	60	150	200	VMX-AGY-209	VMX-AGY-301	VMX-AGY-303
VMX-AGY-305	361		242	75	75	75	200	250	VMX-AGY-301	VMX-AGY-303	VMX-AGY-305
		•	302	100	100	100	250	300	VMX-AGY-303	VMX-AGY-305	-
			361	125	125	150	300	350	VMX-AGY-305	-	-

#### **Dimensions and Weights**

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		Dim. H x W x D inches (mm)	Weight lbs. (kg)							
	VMX-AGY-101 thru 113	7.13 (181) x 4.25 (108) x 5.83 (148) 11.65 (296) x 5.78 (147) x 9.37 (238) 19.29 (490) x 8.07 (205) x 13.03 (331)	4.34 (1.97)							
	VMX-AGY-201 thru 209	11.65 (296) x 5.78 (147) x 9.37 (238)	13.89 (6.3)							
	VMX-AGY-301 thru 305	19.29 (490) x 8.07 (205) x 13.03 (331)	33.07 (15)							
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