

Features

- Full Colour Touch Screen
- 42 Smart Application Suite
- iERS - intelligent Energy Recovery System
- Lifetime Event Logging
- Software for Commissioning, Logging and Troubleshooting
- Automatic Reset
- Automatic Load Tuning
- Built in I²t Motor Overload Protection

RS PRO VMX-synergy 132A-195A

RS Stock No.: 206-065, 206-066, 206-067



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

Product Description

High Performance iERS Energy Saving Soft Starter:

- Reduce mechanical stress on your motor
- Save energy on lightly loaded applications
- Suitable for fixed speed applications with the following pre-set applications built in:
Agitator, Compressor - Centrifugal, Compressor - Reciprocating, Compressor - Screw, Compressor - Vane, Compressor - Scroll, Ball Mill, Centrifuge, Bow Thruster Zero Pitch, Bow Thruster Loaded, Conveyor Unloaded, Conveyor Loaded, Crusher, Escalator, Fan Low Inertia, Fan High Inertia, Feeder Screw, Grinder, Hammer Mill, Hydraulic Elevator, Lathe Machines, Mills - flour Etc, Mixer Unloaded, Mixer Loaded, Moulding Machine, Pelletisers, Plastic and textile Machines, Press- flywheel, Pump - Submersible Centrifugal, Pump - Submersible Rotodynamic, Pump - Positive Displacement Recip., Pump - Positive Displacement Rotary, Pump Jack, Rolling Mill, Roots Blower, Saw - Band, Saw - Circular, Screen - Vibrating, Shredder, Transformers - Voltage Regulators, Moving Walkway, Tumblers, Woodchipper

General Specifications

Device Type	3-phase AC Semiconductor Energy Saving Motor Controller
Function	Soft Starter; Fixed Speed Control; Motor Control
Current (400V / TC10)	132A, 160A, 195A
Power Rating (400V / TC10)	75kW, 90kW, 110kW
Control Panel / User Interface	Yes - 3.5" Full Colour Touch Screen
External Keypad - options	Yes - IP54 or IP65 via Cat5e / Cat6
Bypass	Internally Bypassed
Communication - standard	Modbus RTU
Communication - options	Ethernet IP, Modbus TCP & Profibus DP via plug-in module Other protocols available upon application
Energy Saving	iERS - intelligent Energy Recovery System
Data Logging	Lifetime Event Logging
Automatic Reset	Can be used to attempt restart following fault
Upload / Download	Via USB Memory Stick
Motor Protection	Full I ² t Motor Overload with Thermal Memory
Languages	English, Chinese (Mandarin simplified), Dutch, French, German, Greek, Italian, Japanese, Korean, Polish, Portuguese, Russian, Serbian, Spanish, Turkish, Ukrainian, Vietnamese.

Overall Dimensions	H318mm x W143mm x D232mm
Weight	6.5kg
Mounting Type	Panel

Supply Phases	3-phase
Supply Voltage	200VAC, 208VAC, 230VAC, 400VAC, 480VAC *
Supply Frequency	45-65 Hz
Control Voltage	24VDC, 110 / 230VAC *
Input / Outputs	3 x NO programmable output relays 1 x NC programmable output relay 3 x programmable digital inputs 1 x PTC thermistor input 1 x 0-10v/4-20mA Analogue input 1 x 0-10v/4-20mA Analogue output 1 x USB 1 x RJ12 (RS 485 / Modbus RTU for Bus network monitoring and control)
Rated Starting Capability	Trip Class 10 - 3 x Motor Current for 23 secs - 3.5 x Motor Current for 17 secs Trip Class 20 - 4 x Motor Current for 19 secs Trip Class 30 - 4 x Motor Current for 29 secs
Connection	In-Line or In-Delta
Terminal Type	Cage Clamp

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Operation Environment Specifications

Ambient Temperature	-20°C to +50°C up to +60°C with derating
Storage Temperature	-25°C to +70°C
Altitude	1000m above sea level. 2000m with derating

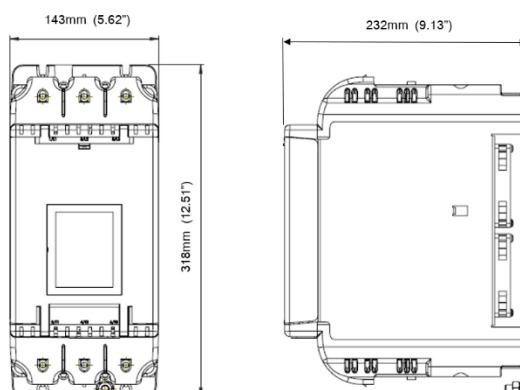
Protection Category

IP Rating	IP20 (with fingerguards)
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Approvals

Standards	CE, ETL, cETL
Legislation	<p>Directives:</p> <p>2014/35/EU - Electrical equipment designed for use within certain voltage limits [Low Voltage Directive - LVD].</p> <p>2014/30/EU - Electromagnetic compatibility [EMC]</p> <p>2011/65/EU - Restriction of the use of certain hazardous substances in electrical and electronic equipment [RoHS] and amending Commission Delegated Directive (EU) 2015/863 with effect from 22 July 2019.</p> <p>Harmonised Standards:</p> <p>EN 60947-4-2:2012 - Low Voltage switchgear and controlgear. Part 4: Controlgear and motor-starters. Section 2. AC Semiconductor motor controllers and starters.</p> <p>EN IEC 63000: 2018 - Technical documentation for the assessment of electrical and electronic products with respect to RoHS.</p>
Environmental	Products comply to RoHS and REACH

Dimensional Drawings



Rated Power and Current

Step 1 - Select the application from the list and follow that column down.	Typical Applications				Standard Duty				Medium Duty				Heavy Duty											
					Default Agitator Compressor (Rotary Vane, Unloaded) Conveyor (Unloaded) Bow Thruster (Zero Pitch) Fan (Low Inertia <85A) Feeder (Screw) Lathe Machines Mixer (Unloaded) Moulding Machine Plastic and Textile Machines Pump - Submersible (Centrifugal, Rotodynamic) Saw (Band) Transformers or Voltage Regulators				Heavy Compressor (Centrifugal, Reciprocating, Rotary Screw) Ball Mill Bow Thruster (Loaded) Conveyor (Loaded) Grinder Hammer Mill Mills (Flour etc..) Mixer (Loaded) Pelletisers 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 >85A) <div>For a Centrifuge Application make selection at $I(A) = motor\ FLA \times 2.3$ at Trip Class 30</div>											
Step 2 - Confirm the rated starting capability of the soft start against the application.	Trip Class Rated Starting Capability Max Starts per Hour				Trip Class 10 3x Motor Current - 23secs 3.5x Motor Current - 17secs 5 starts/hour or 3 starts/hour				Trip Class 20 4x Motor Current - 19secs 5 starts/hour or 3 starts/hour				Trip Class 30 4x Motor Current - 29secs 5 starts/hour or 3 starts/hour											
Step 3 - Consider the operating environment and make the model selection on a higher horsepower rating.	Height Above Sea Level				Standard operating height is 1000m, for every 100m increase motor Amps/kW/HP by 1%, up to 2000m. Example: For a 100A motor at 1500m make model selection based on 105A (5% higher)																			
	Operating Temperature				Standard operating temperature is 50degC, for every 1degC above, increase motor Amps/kW/HP by 4%, up to 60degC. Example: For a 100A motor at 55degC make model selection based on 120A (20% higher)																			
Step 4 - Select your motor Voltage and Horsepower and select model.	Motor Rating In Line				Motor Rating In Delta				Select model				Select model				Select model							
	400V				460V				400V				460V				400V				460V			
	kW		I _a (A)		HP		I _a (A)		kW		I _a (A)		HP		I _a (A)		kW		I _a (A)		HP		I _a (A)	
	75	132	100	124	110	229	150	215	206-065 (132A)				206-066 (160A)				206-067 (195A)							
	90	160	125	156	150	277	200	270	206-066 (160A)				206-067 (195A)											
	110	195	150	180	185	338	250	312	206-067 (195A)															