

Features

- Full Colour Touch Screen
- 45 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
- Built In Remote Keypad
- Energy Monitoring Features

RS PRO VMX-Synergy Plus 132A-195A

RS Stock No.: 206-136, 206-137, 206-139



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	Yes - detachable IP65 connected via Cat5e / Cat6 (standard)		
Bypass	Internally Bypassed		
Communication - standard	Modbus RTU		
Communication - options	Ethernet IP, Modbus TCP & Profibus DP via plug-in module		
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		
	English, Chinese (Mandarin simplified), Dutch, French, German,		
Languages	Greek, Italian, Japanese, Korean, Polish, Portuguese, Russian,		
	Serbian, Spanish, Turkish, Ukrainian, Vietnamese.		

Soft Starters



Mechanical Specifications

Overall Dimensions H318mm x W142mm x D253mm	
Weight	7kg
Mounting Type	Panel

Electrical Specifications

Supply Phases	3-phase		
Supply Voltage	200VAC, 208VAC, 230VAC, 400VAC, 480VAC, 600VAC *		
Supply Frequency	45-65 Hz		
Control Voltage	24VDC, 110 / 230VAC *		
Input / Outputs	3 x NO programmable output relays, 1 Amp 1 x NC programmable output relay, 1 Amp 1 x NO programmable output relay, 3 Amps 4 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 2 x RJ45 (RS 485 / Modbus RTU for Bus network monitoring and control) 1 x Expansion port: Add on Smart Module		
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		

*+10% / -15%

Operation Environment Specifications

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



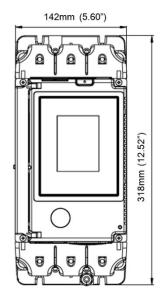
Protection Category

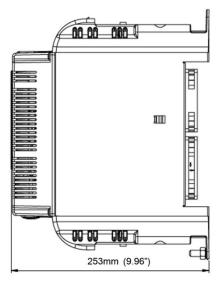
IP Rating	IP20 (with fingerguards)
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Approvals

Standards	CE, UL, cUL				
Legislation	Directives:				
	2014/35/EU - Electrical equipment designed for use within certain				
	voltage limits [Low Voltage Directive - LVD].				
	2014/30/EU - Electromagnetic compatibility [EMC]				
	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.				
	Harmonised Standards:				
	EN 60947-4-2:2012 - Low Voltage switchgear and controlgear. Part 4:				
	Controlgear and motor-starters. Section 2. AC Semiconductor motor				
	controllers and starters.				
	EN IEC 63000: 2018 - Technical documentation for the assessment of				
	electrical and electronic products with respect to RoHS.				
Environmental	Products comply to RoHS and REACH				

Dimensional Drawing





Soft Starters



Rated Power and Current

		Standard Duty	Medium Duty	Heavy Duty
Step 1 - Select the application from the list and follow that column down.		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 Escalator Moving Walkway	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) For a Hydraulic Bevator Application Please Contact RS PRO. For a Centrifuge Application make selection at I(A) = motor FLA x 2.3 at Trip Class 30
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 Operating Temperature	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) 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	Motor Rating In Line	Select Model 5 starts/hour @ 50°C	Select Model 5 starts/hour @ 50°C	Select Model 5 starts/hour @ 50°C 206-139 (195A)
model.	132 37 75 90 124 40 100 125 229 55 110 160 215 75 150 200 160 45 90 110 156 60 125 150 277 75 150 185 270 100 200 250 195 55 110 132 192 75 150 200 338 90 185 220 312 125 250 300	206-136 (132A) 206-137 (160A) 206-139 (195A)	206-137 (160A) 206-139 (195A)	ZUo-139 (195A)