VSA 05 VRT-2

PRODUCT INFORMATION



This is our contribution for a cleaner power grid with more reserves while maximizing efficiencies and lifespans of compressors around the globe. Will you join us?



Plug & Play

The softstarter is installed directly in the compressor supply line without additional elements. It does not need to be configured or run-in, making it also ideal for retrofitting. Due to the grid-feedback-free start-up technology, no steepflank electromagnetic smog is generated. This allows the use of unshielded cables and eliminates the need to install costly line filters or AC/DC-sensitive residual current devices.

Price Advantage

It is our team's tradition and conviction to invest in unparalleled value engineering and quality control processes, creating high-quality products with an above-average value factor. The results are lower acquisition costs for our customers by a factor of 1.5 to 4.0 compared to alternative softstarter technologies.



Longevity

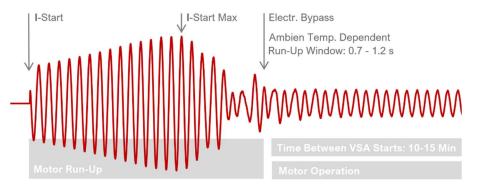
Due to its robust and compact design, the VSA is maintenance-free and durable. We avoided specifying semiconductors susceptible to interference, and our softstarters are protected against external transient burst EN 61000-4-4 and surge EN 61000-4-5, resulting in a 5-year 100% warranty on our entire softstarter product line.

The soft run-up protects the compressor also mechanically. The reduced potentially high- and low- frequency vibrations have a positive effect on the motor itself and its nearby components.

NTC Technology

NTC technology reduces the full AC current. This leads to a clean sinusoidal wave throughout the entire run-up phase. After that, the power section of the softstarter is completely bypassed. The result is a lossless on/off type of compressor operation.



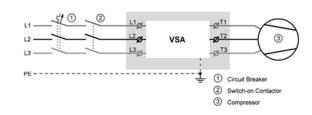


The arrangement of switched NTC thermistors is in its function a full wave softstarter, without any harmonics caused by phase angle control. This allows the softstarter to be integrated into the existing wiring of any on/off climate control compressor setup without additional components such as filters.

Mode of operation: An arrangement of temperature-dependent, ohmic resistors (NTCs) reduces the terminal voltage at the air-conditioning compressor to about 20 to 30 % of the nominal voltage at the time of switch-on. Self-heating reduces the resistance value of the NTC thermistors. The voltage increases continuously until the starting torque is reached. The resulting starting current is therefore free of disturbing mains-feedback in the sense of relevant EMC directives and does not require any filters. VSA models equipped with timed bypass do so automatically after the run-up process has been completed.

Model	VSA 05 VRT-2
Supply Voltage	380-400 VAC
Phase / Hertz	3 Ph / 50 Hz
LRA Max	130 A
I-Oper Max.	26 A
Motor Power	16.2 kW
I-Start Max, Starting Current max	75 A
I-Start, Switch-on Current (20°C)	25 A
Run-up Time	0.7 1.2 s
Electr. Bypass Built-In	✓
Time Between Starts (External)	10 15 Min
Relative Humidity	≤ 75 %
Operating Temperature	-20 +45 °C
Storage Temperatur	-25 +70 °C
Terminal Block Wire Size	16 mm ²
Terminal Block Screw Type	✓
Township I Discola Manifestor	L1L3, T1T3
Terminal Block Markers	L1L3, 1113
Weight	0.75 kg
Weight	0.75 kg
Weight X Overall Dimension	0.75 kg 220 mm
Weight X Overall Dimension Y Overall Dimension	0.75 kg 220 mm 142 mm
Weight X Overall Dimension Y Overall Dimension Z Overall Dimension	0.75 kg 220 mm 142 mm 62 mm
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Weight X Overall Dimension Y Overall Dimension Z Overall Dimension X Mounting Dimension Y Mounting Dimension Mounting Hole Dia. Mounting Plate Thickness Max Mounting Type: Snap-In Spacers	0.75 kg 220 mm 142 mm 62 mm 200 mm 118 mm 4.8 mm
Weight X Overall Dimension Y Overall Dimension Z Overall Dimension X Mounting Dimension Y Mounting Dimension Mounting Hole Dia. Mounting Plate Thickness Max Mounting Type:	0.75 kg 220 mm 142 mm 62 mm 200 mm 118 mm 4.8 mm
Weight X Overall Dimension Y Overall Dimension Z Overall Dimension X Mounting Dimension Y Mounting Dimension Mounting Hole Dia. Mounting Plate Thickness Max Mounting Type: Snap-In Spacers	0.75 kg 220 mm 142 mm 62 mm 200 mm 118 mm 4.8 mm 2.5 mm
Weight X Overall Dimension Y Overall Dimension Z Overall Dimension X Mounting Dimension Y Mounting Dimension Mounting Hole Dia. Mounting Plate Thickness Max Mounting Type: Snap-In Spacers DIN-Rail Adapters	0.75 kg 220 mm 142 mm 62 mm 200 mm 118 mm 4.8 mm 2.5 mm
Weight X Overall Dimension Y Overall Dimension Z Overall Dimension X Mounting Dimension Y Mounting Dimension Mounting Hole Dia. Mounting Plate Thickness Max Mounting Type: Snap-In Spacers DIN-Rail Adapters Mounting Position: Floor Wall	0.75 kg 220 mm 142 mm 62 mm 200 mm 118 mm 4.8 mm 2.5 mm
Weight X Overall Dimension Y Overall Dimension Z Overall Dimension X Mounting Dimension Y Mounting Dimension Mounting Hole Dia. Mounting Plate Thickness Max Mounting Type: Snap-In Spacers DIN-Rail Adapters Mounting Position: Floor Wall Ceiling / Overhead	0.75 kg 220 mm 142 mm 62 mm 200 mm 118 mm 4.8 mm 2.5 mm
Weight X Overall Dimension Y Overall Dimension Z Overall Dimension X Mounting Dimension Y Mounting Dimension Mounting Hole Dia. Mounting Plate Thickness Max Mounting Type: Snap-In Spacers DIN-Rail Adapters Mounting Position: Floor Wall	0.75 kg 220 mm 142 mm 62 mm 200 mm 118 mm 4.8 mm 2.5 mm





Scope of Delivery:	
Softstarter VSA	1
Cover (Aluminum)	1
Insulating Foil	1
Snap-In Spacers	4
DIN-Rail Adapter Set	×
Installation Instruction	1