VSA 05-6 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

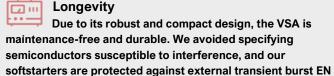
supply line without additional elements. It does not need to be configured or run-in, making it also ideal for retrofitting.

Due to the grid-feedback-free start-up technology, no steep-flank 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

transients.

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.



61000-4-4 and surge EN 61000-4-5, resulting in a 5-year 100% warranty on our entire softstarter product line.

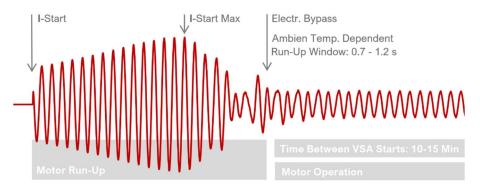
The soft run-up protects the compressor also mechanically. The reduced potentially high- and low- frequency vibrations have a positive effect on the motor itself and its nearby components.



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.





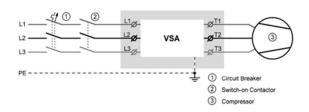
The arrangement of switched NTC thermistors is in its function a full wave softstarter, without any harmonics caused by phase angle control. This allows the softstarter to be integrated into the existing wiring of any on/off climate control compressor setup without additional components such as filters.

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 05-6 VRT-2
Supply Voltage	380-400 VAC
Phase / Hertz	3 Ph / 50 Hz
LRA Max	150 A
I-Oper Max.	26 A
Motor Power	16.2 kW
I-Start Max, Starting Current max	80 A
I-Start, Switch-on Current (20°C)	28 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	~
Terminal Block Markers	L1L3, T1T3
Weight	0.83 kg
X Overall Dimension	220 mm
Y Overall Dimension	142 mm
Z Overall Dimension	62 mm
X Mounting Dimension	200 mm
Y Mounting Dimension	118 mm
Mounting Hole Dia.	4.8 mm
Mounting Plate Thickness Max	2.5 mm
Mounting Type:	
Snap-In Spacers	~
DIN-Rail Adapters	×
Mounting Position:	
Floor	~
Wall	~
Ceiling / Overhead	×
For Natural Convection Cooling:	

Clearance All-Around





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

80 mm min.