

Soft Starters VersiStart III L B [9 – 45A] 1.17

**Features:**

- three-phase controlled soft starter
- controlled by microcontroller
- optimized soft start and current control
- current and torque reduction during acceleration
- easy mounting, for snap-mounting on 35mm standard rail
- integrated bypass relay
- parameterization by means of a potentiometer
- no mains neutral conductor (N) required
- economically priced substitute for star-delta starters
- spring-loaded terminals
- heat sink temperature monitoring
- compact design, 45mm up to 45A
- degree of protection IP20
- motor protection
- thermal device protection



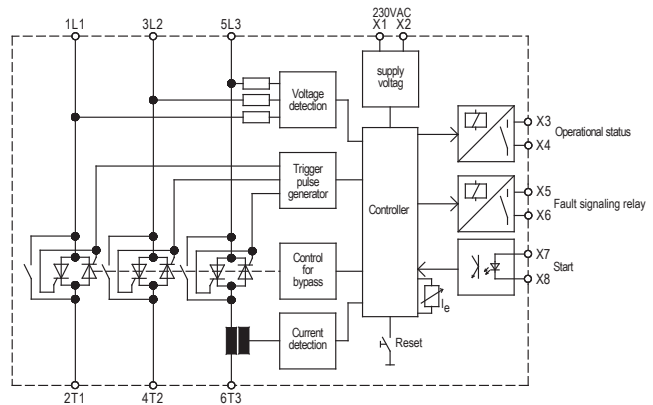
Soft Starters  
**VS III L B [9 – 45A]**  
**CE**

**Function:**

- soft acceleration and deceleration
- potential-free control input for soft acceleration and deceleration
- potential-free relay output for operating state failure

**Typical Applications:**

heat pumps  
compressors



Typical designation (standard)	VS III 480- ...L B				
	9	16	25	37	45
rated device current	9A	16A	25A	37A	45A
rated operational voltage $U_e$	200V – 480V ±10% 50/60Hz				
control supply voltage $U_s$	230V ±10% AC 50/60Hz				
motor rating at $U_e$ 400V	4kW	7,5kW	11kW	18,5kW	22kW
order number	2S511.48009	2S511.48016	2S511.48025	2S511.48037	2S511.48045

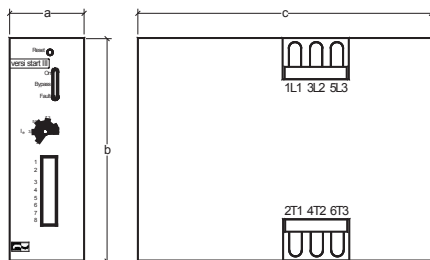
Please observe supplementary sheet with dimensioning rules!

Technical data	VS III 480- L B	9	16	25	37	45
rated device current		9A	16A	25A	37A	45A
switch. frequency/hour at $2,5xI_N$ and $t_{an}=5s$		10	6	4	3	2
	$2,5xI_N$ and $t_{an}=1s$	40	24	16	12	8
utilization category		9A:AC-53b:6-3:360	16A:AC-53b:6-3:597	25A:AC-53b:6-3:870	37A:AC-53b:6-3:1197	45A:AC-53b:6-3:1797
max. power dissipation						
- in operation related to max. starting frequency		9W	9W	9W	9W	9W
- standby		5W	5W	5W	5W	5W
$I^2t$ – power semiconductors in A <sup>2</sup> s		390	720	4000	9100	16200
min. motor load		20% of the device rated current				
starting time		0,6s				
stopping time		0,25s				
restart time		200ms				
input resistance control inputs		80kOhm				
control voltage $U_c$		24VDC ... 230VAC				
contact rating of relay outputs RA1/RA2		2A / 250VAC / 30VDC				
installation class		3				
overvoltage category / pollution degree:						
control and auxiliary circuit		II / 2				
main circuit		III (TT / TN-systems) / 2				
rated impulse strength $U_{imp}$ :						
control and auxiliary circuit		2,5kV				
main circuit		4kV				
rated insulation voltage $U_i$ :						
main circuit		500V				
control and auxiliary circuit		250V				
max. cross-sectional area for connection:						
control terminals			1,5mm <sup>2</sup>			1,5mm <sup>2</sup>
power terminals			6mm <sup>2</sup>			16mm <sup>2</sup>
max. tightening torque:						
control terminals						- spring-loaded terminals
main circuit						- spring-loaded terminals
ambient / storage temperature		0°C ... 45°C up to an altitude of 1000m / -25°C ... 75°C				
weight / kg		0,95				

**Note:**

Please pay attention and consider for the operation of IE3 motors while dimensioning of softstarters and dc brakes the resulting higher starting and braking currents.

For the use of IE3 motors we highly recommend to dimension and design the needed softstarters and braking devices one size higher.

**Dimensions:**

Mounting dimensions	a	b	c
VS III ...-9...45L B	45	147	158

All dimensions indicated in mm.

**Connection Diagram:**