

Features:

- two-phase controlled soft starter
- controlled by microcontroller
- optimized soft start
- connection in the motor delta winding (cost saving via smaller rating)
- current and torque reduction during acceleration
- easy mounting, for snap-mounting on 35 mm standard rail
- integrated bypass relay
- parameterization by means of three potentiometers
- no additional control voltage required
- no mains neutral conductor (N) required
- economically priced substitute for star-delta starters
- plug-in power terminals
- control outputs with spring-loaded terminals
- heat sink temperature monitoring
- compact design, 45mm up to 32A and 52,5mm at 45A
- degree of protection IP20



Soft Starters
VS II ...-17...45



Function:

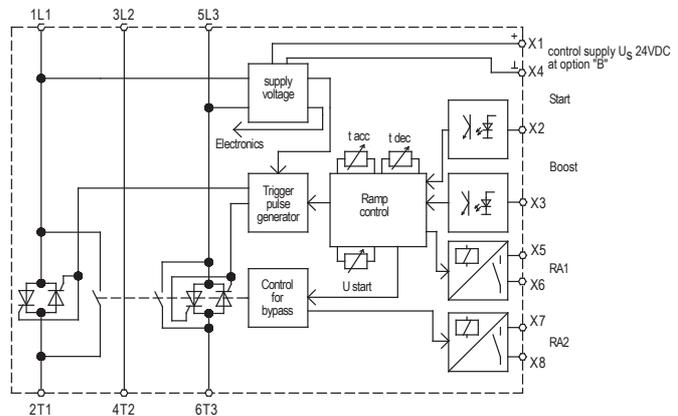
- soft acceleration and deceleration
- potential-free control input for soft acceleration and deceleration
- 3 separately adjustable parameters accel. time, start voltage, decel. time
- boost-start selectable
- potential-free relay output for operating state -unit bypassed – and failure

Typical Applications:

door and gate drives
pumps, ventilators, fans
conveying systems, packaging machines
transport systems, assembly lines, machine applications

Options: (upon request)

- special voltages 230V and 480V
- wide voltage range 400-600V with external control supply voltage U_s 24VDC (B)
- signalling contact (M)
- beginning of acceleration until end of deceleration
- motor PTC



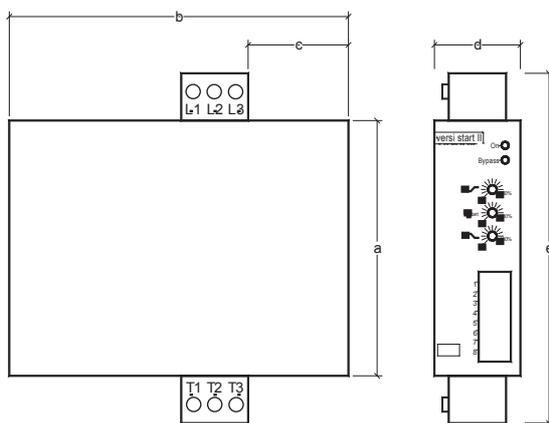
Typical designation	VS II 400-17	VS II 400-25	VS II 400-32	VS II 400-45
rated device current	17A	25A	32A	45A
motor rating at 400V mains voltage	7,5kW	11kW	15kW	22kW
mains / motor voltage according to DIN EN 50160 (IEC 38)	400V ± 10% 50/60Hz			
order number	25700.40017	25700.40025	25700.40032	25700.40045

Technical data	VS II 400-17	VS II 400-25	VS II 400-32	VS II 400-45
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max. power dissipation- - in operation - in standby	29,5W 7,5W	29,5W 7,5W	28,5W 7,5W	27W 7,5W
min. motor current	20% of the device rated current			
acceleration time	0,5 ... 10s			
start voltage	40 ... 80%			
deceleration time	0,5 ... 10s			
restart time	200ms			
max. switching frequency at 3xle and 5s t _{on}	60/h	40/h	30/h	10/h
cross-sectional area control terminals power terminals	1,5mm ² / AWG 16 6mm ² / AWG 10		1,5mm ² / AWG 16 16mm ² / AWG 6	
I ² t – power semiconductor in A ² s	4000	4000	9100	16200
tightening torque	1,2-1,5 Nm 11-13 lbs in		1,5-1,7 Nm 13-15 lbs in	
input resistance control input	10kΩ			
switching rating of relay output RA1/RA2	3A/250VAC; 3A/30VDC			
overvoltage category / pollution degree	III (TT / TN-systems) / 2			
installation class	3			
surge strength	4kV			
ambient / storage temperature	0°C ... 45°C up to an altitude of 1000m / -25°C ... 70°C			
weight / kg	1			
special voltages	230V / 480V / wide voltage range 400-600V with external control supply voltage US 24VDC±10%/150mA			

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	d	e
VS II ...- 17...32	125	158	53	45	173
VS II ...- 45	125	158	53	52,5	178

All dimensions indicated in mm

Connection Diagram: