

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:

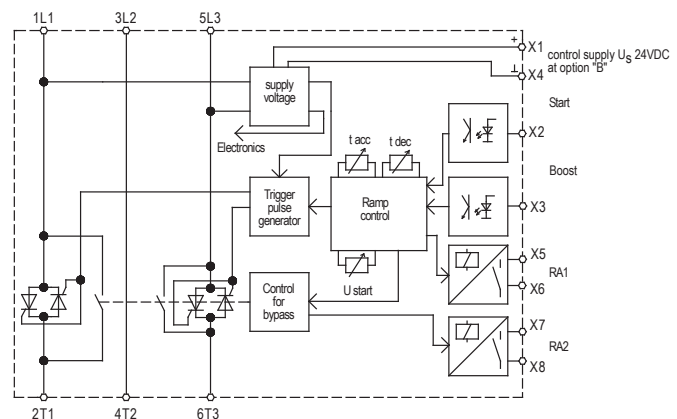
- soft acceleration and deceleration
- potential-free control input for soft acceleration and deceleration
- 3 separately adjustable parameters accel. time, start voltage, decel. time
- boost-start selectable
- potential-free relay output for operating state -unit bypassed – and failure

Typical Applications:

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

Options: (upon request)

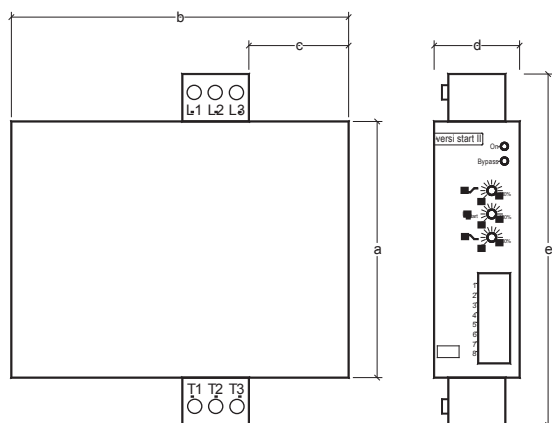
- special voltages 230V and 480V
- wide voltage range 400-600V with external control supply voltage U_s 24VDC (B)
- signalling contact (M)
- beginning of acceleration until end of deceleration
- motor PTC



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 \pm 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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rated device current	17A	25A	32A	45A
motor rating at 400V mains voltage	7,5kW	11kW	15kW	22kW
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 8	
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	10k Ω			
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 \pm 10%/150mA			

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:

