

**Features:**

- ❑ two-phase controlled soft starter
- ❑ controlled by microcontroller
- ❑ optimized soft start
- ❑ heatsink temperature detection
- ❑ connection in the motor delta winding (cost saving via smaller rating)
- ❑ current and torque reduction during acceleration
- ❑ easy mounting, also for retrofitting into existing plants
- ❑ integrated bypass relay
- ❑ parameterization by means of four potentiometers
- ❑ no additional control voltage required
- ❑ no mains neutral conductor (N) required
- ❑ economically priced substitute for star-delta starters
- ❑ control outputs with spring-loaded terminals
- ❑ compact design, 103mm width
- ❑ degree of protection IP20



Soft Starters  
**AC-VS II ...-50...75**  
CE

**Function:**

- ❑ soft acceleration and deceleration
- ❑ potential-free control input for soft acceleration and deceleration
- ❑ 4 separately adjustable parameters  
accel. time, start voltage, decel. time, max. start current
- ❑ boost-start selectable
- ❑ Motor PTC
- ❑ current controlled start-up with external transformer (transformer is included in delivery)
- ❑ potential-free control output for operating state – unit bypassed – and failure

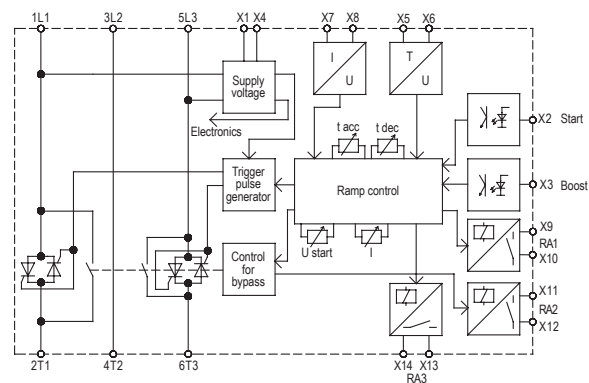
**Options: (upon request)**

- ❑ special voltages 230V and 480V
- ❑ wide voltage range 200-400V or 400-600V with external control supply voltage  $U_s$  24VDC (option B)

**Typical Applications:**

door and gate drives  
pumps, ventilators, fans  
conveying systems

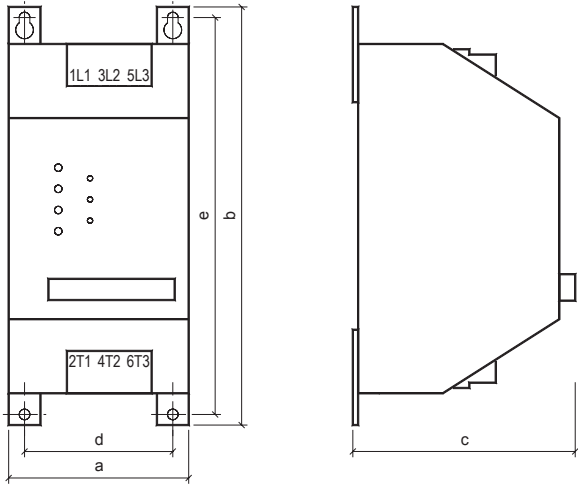
packaging machines  
transport systems, assembly lines  
machine applications



Technical Data (standard)	AC-VS II 400-50	AC-VS II 400-65	AC-VS II 400-75
Mains / Motor voltage according to DIN EN 50160 (IEC 38)	400V ±10% 50/60Hz		
Rated device current	50A	65A	75A
Motor rating at 400V mains voltage	25kW	30kW	37kW
max. Power dissipation - in operation - in standby	30W 10W		
min. motor current	20% of the device rated current		
Acceleration time	0,5 ... 10s		
Start voltage	40 ... 80%		
Deceleration time	0,5 ... 10s		
max. Start current	200% - 500% of the device rated current		
Restart time	200ms		
max. Switching frequency at 3x I <sub>a</sub> and 10s t <sub>an</sub>	35/h	25/h	30/h
I <sup>2</sup> t - Power semiconductor	6600A <sup>2</sup> s	11200A <sup>2</sup> s	25300A <sup>2</sup> s
Cross-sectional area: Control terminals Power terminals	0,2 - 2,5mm <sup>2</sup> /24 - 12 AWG solid 1 - 35mm <sup>2</sup> , 18 - 2 AWG / stranded 1 - 25mm <sup>2</sup> , 18 - 3 AWG		
Tightening torque (power terminals)	25mm <sup>2</sup> = 2,5 Nm 25mm <sup>2</sup> = 22 lbs in	35mm <sup>2</sup> = 4,5 Nm 35mm <sup>2</sup> = 40 lbs in	
Input resistance Control inputs	10kΩ		
Switching rating of relay output RA1/RA2/RA3	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	1,5	1,5	2,2
Special voltages (optional)	230V / 480V / wide voltage range 200-400V or 400-600V with external control supply voltage $U_s$ 24VDC±10%/150mA		
Order number	25700.40050	25700.40065	25700.40075

Please observe supplementary sheet with dimensioning rules.

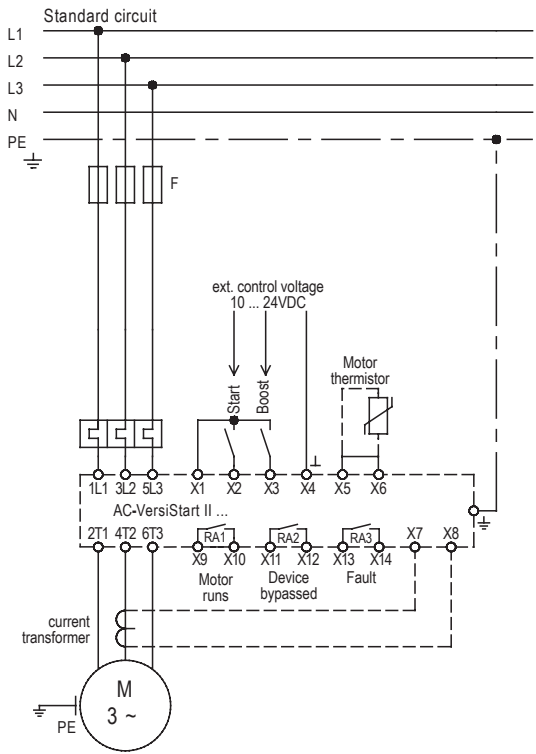
**Dimensions:**



Mounting dimensions	a	b	c	d	e
AC-VS II ...- 50...65	103	230	125	86	220
AC-VS II ...- 75	103	230	140	80	220

All dimensions indicated in mm.

**Connenction Diagramm:**



**EMC**

The limit values for emitted interference according to the applicable device standards do not rule out the possibility that receivers and susceptible electronic devices within a radius of 10m are subjected to interference.

If such interference, which is definitely attributable to the operation of the soft starters "AC-VersiStart II ...", occurs, the emitted interference can be reduced by taking appropriate measures.

Such measures are, e.g.:

- To connect reactors (3mH) or a suitable mains filter in series before the soft starter, or to connect X-capacitors (0.15µF) in parallel to the supply voltage terminals.

Subject to change without notice.