PETER electronic

Soft Starters VersiStart p III 250 ... 580 1.21

Features:

- three-phase controlled digital soft starter (11-800kW)
- integrated bypass
- current and torque reduction during acceleration
- USB port
- comprehensive and customizable motor protection
- display graphical LCD – real time graphs of motor operating performance
- inside delta (6-wire) connection
- degree of protection IP20 up to 135A
- motor PTC connection

Soft Starters
VS p III ...-250 ... 580

Function:

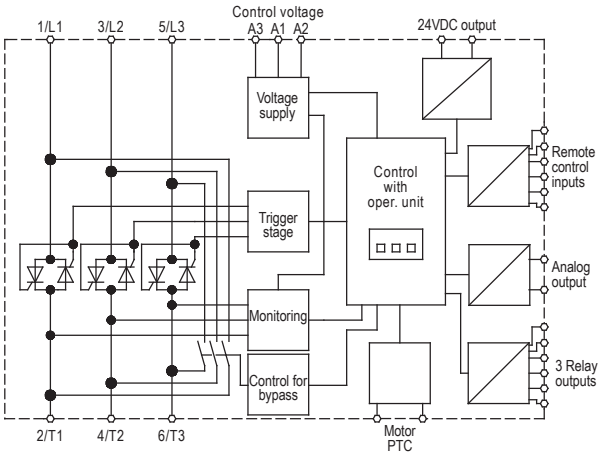
- adjustable initial start current level up to 600% of nominal rating
- emergency run
- 2 motor sets: forward or reverse jog function
- remote control inputs (2x fixed, 2x programmable)
- relay inputs (3x programmable)
- 24VDC output
- analog output
- divers soft start/stop control types
- units with 690V upon request

Typical Applications:

pumps, ventilators
compressors
mills, crushers, presses
conveying systems
drives with high-inertia starting
machines with gear units, belt or chain drives

Accessories:

- Remote Keypad & Cable (29000.2S801)
- DeviceNet Interface (29000.2S802)
- Ethernet IP Interface (29000.2S803)
- ModBus RTU Interface (29000.2S804)
- ModBus TCP Interface (29000.2S805)
- Profibus Interface (29000.2S806)
- Profinet Interface (29000.2S807)
- Remote Keypad Card (29000.2S808)
- Remote Keypad, Card & Cable (29000.2S809)
- SmartCard Pump Application (29000.2S810)
- Finger protection (from 184A up to 580A, 29000.2S811)

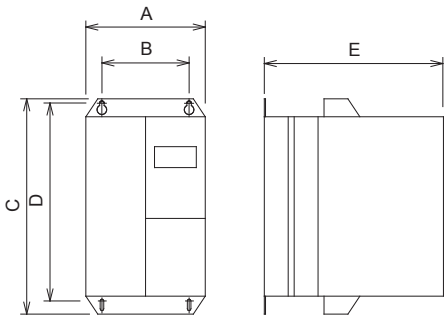


Typical designation	VS p III 525 -					
	250B* C1 / C2	352B C1 / C2	397B C1 / C2	410B C1 / C2	550B C1 / C2	580B C1 / C2
rated device current	250A	352A	397A	410A	550A	580A
operating rated voltage	200-525V 45-66Hz					
control supply voltage	C1: 110VAC; 220VAC -15%/+10% 600mA; C2: 24VDC/24 VAC ±20% 2.8A					
motor rating at Ue 400V	132kW	160kW	185kW	220kW	280kW	315kW
order number:						
C1 2S900.50...	250	352	397	410	550	580
C2 2S901.50...	250	352	397	410	550	580

*with bypass relay

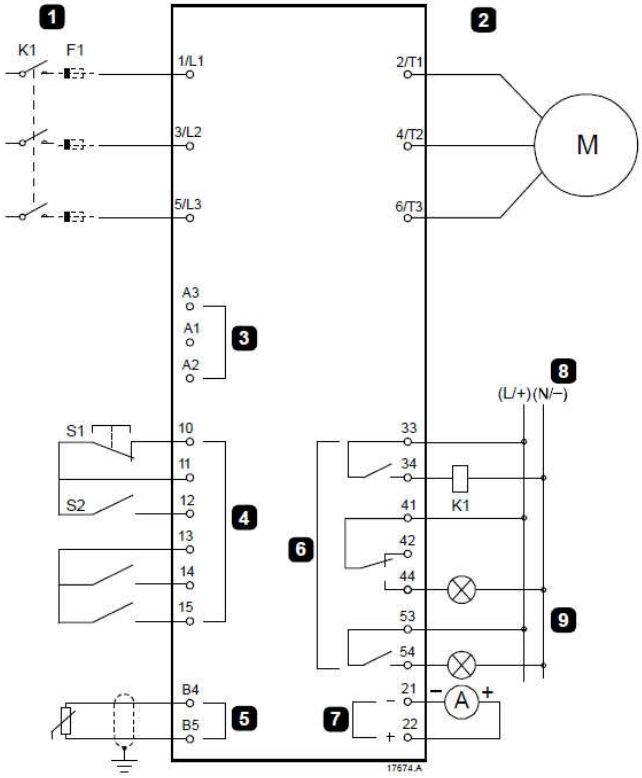
	VS p III 525 -					
Technical data	250B C1 / C2	352B C1 / C2	397B C1 / C2	410B C1 / C2	550B C1 / C2	580B C1 / C2
max. power dissipation **- during start** **- in operation**	4,5W per A 120W	4,5W per A 140W				
I^2t – value power semiconductors in A^2s	320000	202000		320000	781000	781000
min. motor load	5A	9A	11A	15A	21A	29A
utilization category	AC53b					
EMC	meets EU-standard 89/336/EEC; IEC 60947-4-2 class B; IEC 60947-4-2					
ambient / storage temperature	-25°C up to +60°C (Derating) / -25°C up to +60°C					
inputs	active 24VDC about 8mA, motor PTC (trip >3,6kOhm, reset <1,6kOhm)					
relay outputs	10A at 250VAC resistive, 5A at 250VAC AC15 Lf 0,3					
analog output	0 up to 20mA or 4 up to 20mA					
24VDC output	max. 200mA					
kinds of start	constant current, current ramp, adaptive control, kick start					
kinds of stop	soft stop via voltage drop in an allowed time, DC brake, free deceleration					
adapable protection functions	motor overload, min. current, max. starting time, short-time over-current, current unbalance, mains frequency, phase sequence					
certification	CE, RoHS conform, RCM, Lloyds Register, UL / cUL					
weihgt / kg	12,5	15,5			19	

Dimensions:



	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
VS p III...-250	216	180	495	450	243
VS p III...-352	216	180	523	450	243
VS p III...-397	216	180	523	450	243
VS p III...-410	216	180	523	450	243
VS p III...-550	216	180	523	450	243
VS p III...-580	216	180	523	450	243

Connection Diagram:



1	Three-phase supply
2	Motor
3	Control voltage (soft starter)
4	Digital inputs
5	Motor thermistor input
6	Relay outputs
7	Analog output
8	Control voltage (external equipment)
9	Pilot lamps

K1	Main contactor
F1	Semiconductor fuses (optional)
10, 11 (S1)	Reset
11, 12 (S2)	Start/Stop
13, 14	Programmable input A (default = Input Trip (N/O))
13, 15	Programmable input B (default = Input Trip (N/O))
B4, B5	Motor thermistor input
33, 34	Main contactor output
41, 42, 44	Relay output A (default = Run)
53, 54	Relay output B (default = Trip)
21, 22	Analog output