Soft Starter with Dynamic Brake (two controlled phases)

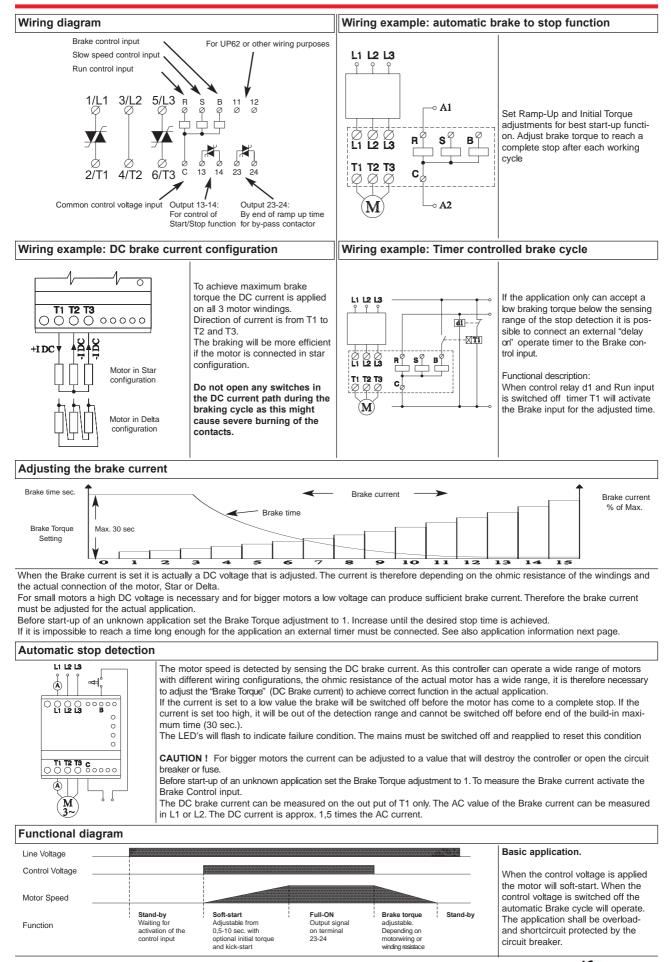


- Rated operational voltage up to 480VAC 50/60Hz
- Rated operational current 1-25A
- Output signal for By-Pass and control of mechanical brake
 Ramp Up time and initial torque adjustable with kick start
 Adjustable Brake current

- Automatic stop detection
- Fast action brake mode with automatic motor field reduction
- Meets EN 60947-4-2 requirements

Item selection and	d technical	specificat	tions	6 (see also	o motor tal	ble at page 11)				
Load ratings AC-53a without by-pass AC-53b with by-pass	208-240VAC 50/60Hz 40		400	Item number by 400-480VAC 50/60Hz Line Voltage			Ramp-Up / Brake- adjustment	Torque adjustment		Module- width
25A AC-53a	SMBC 3 DA 2325 SMBC			MBC 3 DA 4025			Ramp-up		djustable	90mm
30A AC-53b w. by-pass			SME	SMBC 3 DA 4025			time 0.5 - 10 sec.	with sele		90mm
							Brake current 0-50ADC.	kick start 200ms (break loose function)		
Load specified with utilisation category AC-53a						Load specified wit	d with utilisation category AC53b			
SMBC 3 DA XX25 AC-53a: No by-pass contactors is nessesary during run- ning						SMBC 3 DA 4025 AC-53b: By-pass contactor shall be used for bypassing the soft starter during running of the motor by 30A/15kW 400V load				
Output load speci	fication									
SMBC 3 DA XX25 (without by-pass contactor)				More info.	page 37	SMBC 3 DA XX25 (with by-pass contactor)			More info.	page 37
Overload current profile AC-53a				X-Tx:8-3 : 100-3000		Overload current profile AC-53b			X-Tx:6-5 : 100-120	
Overload relay trip class AC-53a				10 or 10A		Overload relay trip class AC-53b			10 or 10A	
Leakage current				5mA ACmax.		Min. operational current			1A	
Control terminal specifications					Auxiliary contacts					
Control voltage by line voltage 208-240VAC A1-A2				24 - 230 V	AC/DC	Output specifications for SMC 3 DA XXBP				
Control voltage by line voltage 400-480VAC A1-A2			2	24 - 480 V	4 - 480 VAC/DC Terminal: 13-14, SCR outp			function,		
Pick-up voltage max.				20.4 VAC/	DC	Terminal: 23-24, SCR output for connection of by-pass contactor.				
Drop-out voltage min.				5 VAC/DC		Output specifications: SCR: 0.5A AC-14, AC15 24-230/480V AC 50-60Hz Fusing:10 A gl/gG Max I ² t 72A ² Sr				
Max. control current for no operation				1mA						
Response time max.				100msec.		Terminal: 11-12 , have no connection with the internal circuit. Can be used in conjunction with a thermal overload protection or for other wiring purposes. See				
Control current / power max.				15mA / 2V	/A	under general technical information.				
Thermal specifica	tion									
Power dissipation for continuous operation PDmax				2W/A without BP		Operation in ambient temperatures exceeding 40 ^o C is possible if the power dissipation is limited either by reducing the steady-state current or by reducing				
Power dissipation with semiconductor by-passed				4 W Max.		the duty-cycle of the soft starter as shown in the table. Max.cycle time 15min.				
Cooling method				Natural convection Vertical +/-30 ⁰		By 40 ⁰ C	By 50 ⁰ C	Ву	60 ⁰ C	
Mounting						100% load Duty-cycle 100%	80% load Duty-cycle ma	ix. 0.8 70	% load Duty-cy	cle max. 0.65
Operating temperature range EN 60947-4-2				-5C ⁰ to 40 ⁰ C		ЕМС				
Storage temperature EN 60947-4-2 -20C ^o t				-20C ⁰ to 8	30°C	This component meets the requirements of the product standard				
Max. operating temperature with current derating 60°C					EN60947-4-2 and is CE marked according to this standard.					
Insulation specifications					Approval					
Rated insulation voltage				Ui 660 Volt		ULc Std No. 508 / CAN/CSA-C22.2				
Rated impulse withstand voltage				Uimp. 4 kVolt		This products has been designed for class A equipment. Use of the product in domestic environments may cause radio interference, in which case the user may be required to				
Installation catagory				III	,	employ additional mitigation		the Nationa	l Electric Code	. When
Environment						UL:Use thermal overload protection as required by the National Electric Code. When protected by a non-time delay K5 or H Class fuse, rated 266% of motor FLA, this device is rated for use on a circuit capable of delivering not more than 5,000 rms. symmetrical				
Degree of protection	n IP 20 Pollution degree				3	amperes, 600 V maximum. Maximum surrounding temperature 40°C.				

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