Soft Starter (SMC 33 / three controlled phases)



- Rated operational voltage up to 480 VAC 50/60Hz
- Rated operational current up to 86A (inside delta DBP)
- Output signal for By-Pass and Start/Stop
- Ramp Up and Down time adjustable
- Initial Torque adjustable with kick start
- Wide control voltage range
- Meets EN 60947-4-2 requirements
- High number of start/stop operations pr. hour. See data.

Item sel	ection and	d technical	specificat	tions	6 (see also motor tal	ble at page 11)					
Load ratin ¹ Inside delta	ad ratings ide delta configuration litem number by 208-240VAC 50/ Line Voltage		er by C 50/60Hz e	lten 400 Line	n number by -480VAC 50/60Hz e Voltage	Item number by 550-600VAC 50/60Hz Line Voltage	Ramp- Up / Down adjustment		Torque adjustment		Module- width
15A AC-53a	iA AC-53a SM iA AC-53a no by-pass SM /A AC-53b w. by-pass SM			SMC	33 DA 4015						90 mm
15A AC-53a				SMC	33 DA 4025BP						90 mm
27A AC-53b				SMC	33 DA 4025BP		Ramp-up				90 mm
35A AC-53a	AC-53a no by-pass SMC 33 DA 2350BP*		SMO	C 33 DA 4050BP*		time	time		ljustable	180 mm	
50A AC-53b	A AC-53b w. by-pass SMC 33 DA 2350BP* SM			SM	C 33 DA 4050BP*		0.5 - 50 sec.		of norminal torqu with selectable		180 mm
Items for Insid	le delta configura	ation	2330BF	SINI	5 33 DA 4030BF		Ramp-dowr	ı	kick start	200ms	
1 _{25A AC-53a}	125A AC-53a no by-pass				33 DA 4040DBP		time 0.5 - 60 sec.		(break loose function)		90 mm
1 43A AC-53k	143A AC-53b w. by-pass				33 DA 4040DBP						90 mm
¹ 60A AC-53a no by-pass		SMC 33 DA 2385DBP*		SMC 33 DA 4085DBP*							180 mm
1 86A AC-53b	A AC-53b w. by-pass SMC 33 DA 2385DBP* S		SMO	MC 33 DA 4085DBP [*]		180 mm					
Load sp	ecified wit	th utilisatio	Load specified wit	h utilisatio	n cat	egory A	C53b	•			
SMC 33 DA running, sh	XXXX BP AC- all be connect	53a: No by-pas ed as inline co	SMC 33 DA XXXX BP AC-53b: By-pass contactor shall be used for bypas- sing the soft starter during running, shall be connected as inline confirgu- ration								
SMC 33 DA motor shall	XXXX DBP Ad be connected	C-53a: No by-p I in an inside-c	SMC 33 DA XXXX DBP AC-53b: By-pass contactor shall be used and motor connected in an inside-delta configuration								
Output I	oad speci	fication (90	Output load specification (180mm module) more info page 45								
Overload current profile AC-53a (without by-pass contactor)				X-Tx:6-5 : 100-120	Overload current profile AC-53a (without by-pass contactor) X-Tx:6-6 : 100-120					00-120	
Overload current profile AC-53b (with by-pass contactor)					X-Tx:5-5 : 30	Overload current profile AC-53b (with by-pass contactor) X-Tx:6-6 : 30					0
Overload re	Overload relay trip class AC-53a/AC53b				10 or 10A	Overload relay trip class AC-53a/AC53b 10 or 10A					
Leakage current: 5mA ACmax. Min. operational cu				current: 50mA	Leakage current: 5mA ACmax. Min. operational current				current: 50r	mA	
Control	terminal s	pecificatio	Auxiliary contacts								
Control voltage by line voltage 208-240VAC A1-A2					24 - 230 VAC/DC	Terminal: 13-14, AC SCR output for start/stop function,					
Control volt	Control voltage by line voltage 400-600VAC A1-A2				24 - 480 VAC/DC	Terminal: 23-24, AC SCR output for connection of by-pass contactor.					
Pick-up volt	Pick-up voltage max.				20.4 VAC/DC	Output specifications for 90mm module: AC SCR: 0.5A AC-14, AC15					
Drop-out voltage min. 5					5 VAC/DC	27230/700V AC 3070012 FUSHIG: 9//90 IVIdX ITL /2ATS					
Max. contro	Max. control current for no operation				1mA	24-230/480V AC 50-60Hz Fusing: gl/gG Max i ² t 72A ² S					C15
Response time max.				70msec.	Terminal: 11-12, have no connection with the internal circuit. Can be used in						
Control current / power max.					15mA / 2VA	conjunction with a thermal overload protection or for other wiring purposes. See under general technical information.					
Thermal	specifica	tion		I		I					
Power dissin	bation for cont	inuous operatio	Operation in ambient temperatures exceeding 40°C is possible if the power								
Power dissipation with semiconductor by-passed					5 W Max. with BP	dissipation is limited either by reducing the steady-state current or by reducing the duty-cycle of the soft starter as shown in the table. Max.cycle time 15min.			ducing min.		
Cooling me	Cooling method				Natural convection					Du colic	
Mounting	Mounting				Vertical +/-30 ⁰	ву 40°С	ву 50°С		Ву	00°C	
Operating t	Operating temperature range EN 60947-4-2				-5 ⁰ C to 40 ⁰ C	100% load Duty-cycle 100%	80% load Duty-c	ycle max.	0,8 709	% Ioad Duty-cyc	le max. 0,65
Max. operati	- Max. operating temperature with current derating				60 ⁰ C						
Storage ten	nperature EN (50947-4-2	-		-20 ⁰ C to 80 ⁰ C						
<u> </u>	•									C ELEC	TRONIC A/S

* NOT cUL APPROVED

Soft Starter (SMC 33 / three controlled phases)



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