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eltwin Soft starter for 3-phase motors with integrated by-pass Rated operational voltage 200...480VAC Rated operational current: 30A (rms) 51A inside delta Rated operational current: 50A (rms) 86A inside delta Frequency: 50/60Hz Phase sequence protection Integrated by-pass Relay for operating signal Soft start / soft stop Kickstart / starting torque Status via LED and signal relay Fault, via LED and signal relay Power supply monitoring Selection and technical specifications: EAN Nr. Control Product type Rated operational Rated operational voltage Ue current Ie voltage Uc 200...480VAC SMC 33 DA 4830BPi 30A AC 53b 230VAC 5705609003142 SMC 33 DA 4850BPi 200...480VAC 5705609003159 50A AC 53b 230VAC

Product description:

The soft starter is 3-phase controlled with integrated by-pass relays which give a compact solution and reduce the wiring.

The soft starter is dimensioned to handle many starts per hour.

The soft starter is used for start-up of 3-phase motors in applications such as pumps, compressors, conveyor belts, escalators, centrifugal fans, crushers, mixers, mills and stirrers etc.

Protection:

The soft starter can be used with motor protection, which protects the engine against overload. Motor protection type 10A and type 10 is recommended. At very high load during soft start and soft stop, type 20 is used.

The soft starter to be short-circuit protected by circuit breakers or fuses. It is recommended to use the circuit breaker or fuse that has a lower I2t value than the softstarter's. National regulations must be observed. See general technical information about the installation of soft starter.

-	tions:				
Supply voltage specification	tions:				
Rated operational voltage	e Ue	:	3 x 200480VAC +10/- 15%		
Current le SMC33DA4830BPi (In line)			3 x 30A (ri	ms)	
Current le SMC33DA4830BPi (Inside delta)			3 x 51A (ri	ms)	
Current Ie SMC33DA4850BPi (In line)		:	3 x 50A (ri	ms)	
Current Ie SMC33DA4850BPi (Inside delta)		a) :	3 x 86A (ri	ms)	
Rated AC frequency		:	50/60Hz		
By-pass		:	With inter	nal by-p	oass relay
Categori		•	AC - 53b		
Control voltage specific	ations: (L - N)				
Control voltage Uc		:	1 x 230 Va	c +/-15%	6
Control current Ic (4830)BPi)	:	<2mA @U	$c = 230^{10}$	Vac (L-N)
Control current Ic (4850BPi)		:	<3mA @U	$c = 230^{3}$	Vac (L-N)
Controlsignal:					
Start/stop (A1 - A2)				230 V	/ac +/-15%
Signal output		:	3A @ 122	250 Vac/	'Vdc (signal relay)
Adjustable settings:					
Ramp up		:	16 step	0,53	60 sec.
Ramp down		:	16 step	0,56	50 sec.
Initial torque / kick start		:	8+8 step	200m	S / 085%
Switch for inline / inside delta / L1/L2/L3		:	4 step (2 I	n line / 2	2 Inside delta)
General specifications:					
Initial torque		:	085%		
Motor current nominal	30A	:	30A		
Motor current nominal	50A	:	50A		
Semiconductor data:					
Product type	Rated operatio	nal curre	ent I^2	²t	Short circuit protection
	30 A		630	00 A ² s	80A max.: gl/gG
SMC 33 DA 4830BPi	3011				

SMC 33 DA 4830BPi					
Environmental conditions:Degree of protection: IP 20Storage temperature: -20° to 80°COperating temperature large: -5° 40°CPollution degree: 3	Features:Soft starter with microprocessor control.Line frequency detection.Setting rotary switches, ramp up, ramp down, kickstart and / or starting torque increase.Fault, indication LED and signal relay.Internal by-pass.Power supply monitoring				
Operation in ambient temperatures exceeding 40°C is possible if the power dissipation is limited either by reducing the steady-state current.	is 40°C 50°C 60°C 100% 80% 70% Load duty-cycle Load duty-cycle				
Drawing dimension 30 + 30 + 43 145 + 3.9 122.6 145 + 3.9 145 + 3.9	Housing material: Self-extinguishing PPO UL94V1 halogen free Color: black / gray Built-in DIN rail mounting				
Mounting instructions	Connections 1/L1 $3/L2$ $5/L3$ 11 12 14 C 340 0 0 0 0 0 0 0 0 0				
Output load specifikation: Overload current profile AC-53b X-Tx: 5-5:30 (30A)	Connection: L1; L2; L3: Line voltage T1; T2; T3: Motor mounting L - N : Control voltage 230VAC A1 - A2: Start 14: Status signal relay (potientalfri contacts) 34: Fault signal relay (potientalfri contacts) C: Common terminal				





Restrictions of haza	ardous substances	RoHs Compliant				
CE marking	LVD EMC: Immunity Emission	EN 60947-4-2 EN 61000-6-4 EN 61000-6-2				
Electrostatic dichar	ge ESD Immunity	EN 61000-4-2 8 kV, Air discharge 4 kV, Contact				
Electrical fast trans Burst immunity	ient/ Output Input	EN 61000-4-4 4 kV 4 kV				
Electrical surge im	nunity Output, line to line Output, line to earth Input, line to line Input, line to earth	EN 61000-4-5 1 kV 2 kV 1 kV 2 kV				
Radiated radio frequency Immunity		EN 61000-4-3 3V/m, 80-1000MHz				
Conducted radio fro Immunity Voltage dips & inte	equency	EN 61000-4-6 3V/m, 0,15-80MHz IEC/EN 61000-4-11				
Radio interference field emissions (radiated)		CISPR 11 IEC/EN 55011, Class B				
Radio interference voltage emissions (conducted)		CISPR 11 IEC/EN 55011,Class B				
Harmonics		IEC 61000-3-2				





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Specifications subject to change without notice rev.7