eltuin Big enough to matter - Small enough to care

Soft starter for 3-phase motors with integrated by-pass

Image: Construction of the second	Rated operational voltage 200480VAC Rated operational current: 100A (rms) (up to 173A 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 Motor connection detection Inside delta proper connection By-pass control				
Selection and technical specifications: Product type Rated operational voltage Ue EAN Nr.	. Rated operational current Ie Control voltage Uc				
SMC 33 DA 48100BPi200480VAC5705609003166100AAC 58b230VAC					
Product description:	Protection:				
The soft starter is 3-phase controlled with integrated by-pass relays which give a compact solution and re- duce 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.	The soft starter can be used with motor protection, which protects the engine against overload. Motor protection type 10A and type 10 is recommend- ed. 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 soft- starter's. National regulations must be observed. See general technical information about the installation of soft starter.				
	of soft starter.				

Technical specifications:				
Voltage specifications: Rated operational voltage Ue Current Ie (In line) Current Ie (Inside delta) Rated AC frequency By-pass Categori	::	3 x 200480VAC +10/- 15% 3 x 100A/phase (by-pass relay 120A) (rms) 3 x 173A/phase (by-pass relay 120A) (rms) 50/60Hz +/- 2 Hz With internal by-pass 3 relay AC - 53b		
Control voltage specifications: (L - N)				
Control voltage Uc	•	230 Vac +/-15% (min. 185 Vac)		
Controlsignal: Start/stop (A1 - A2) Signal output 2 relay	: :	230 Vac +/-15% Max 3A @ 12230 Vac/Vdc (signal relay) min. 20mA @ 12V		
Adjustable settings: Ramp up Ramp down Initial torque / kick start Switch for inline / inside delta / L1/L2/L3 General specifications: Initial torque	:	16 step 0,530 sec. 16 step 0,560 sec. 8+8 step 200mS / 085% 4 step (2 in line / 2 inside delta) 0 85%		
Motor current nominal 100A	:	100A		
Semiconductor data:				
Product type Rated operationa	al curi	rent I ² t Short circuit protection		
SMC 33 DA 48100BPi 100A		60000 A ² s 250A max.: gl/gG		
In line		Inside delta		
L1 L2 L3		I I		

SMC 33 DA 48100BPi					
Environmental conditions:Degree of protection: IP 20Storage temperature: -20° to 80°COperating temperature Large: -10°C 40°CPollution degree: 3	Line freque Setting rota start and / o Fault, indic Internal by Power supp	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 monitoringMotor connection detection			
Operation in ambient temperatures exceeding 40°C is possible if the power dissipation is limited either by reducing the steady-state current.	100%	50°C 80%	60°C 70%		
181 Drawing dimension		Load duty-cycle rial: inguishing PPO UL94 black / gray	Load duty-cycle		
	Connections				
If the unit is mounted horizontally the current must be derated by 50% Keep heatsink clean. Airflow must not be blocked	1/L1 3/L2 Ø Ø Ø 2/T1 4/T2	230Vac Sto	art / op Run Fault J J J J Ø Ø Ø Ø Ø A2 13 14 33 34		
Output load specifikation: Overload current profile AC-53b X-Tx: 6-6:30 (100A)	T1; T2; T3: L - N : A1 - A2: 13-14:	Line voltage Motor mounting Control voltage 230VA Start / Stop 230VAC Signal relay status Fault signal relay	AC 3		

