

Softstarter for AC motors of the squirrelcage winding with slip ring rotor construtional types type SAK31



CE - konform

- No star delta run-up necessary
- Suitable for all types of windings, also for pole changing motors and motors with separated windings
- Reducing the starting current
- Motor power up to 3KW
- Adjustable run-up time and starting torque
- Integrated relay with potential-free change-over contacts
- Suitable for the tropics - Epoxy resin casted
- Operating status shown by LED
- Safety acc. to VDE, EN, UL, CSA

Technical data

Input data		
Input voltage AC	3 x 400VAC	40 - 60 Hz
Inputvoltage tolerance	-10% bis +10%	
Consumption	max. 1,2VA wit run-up	
Range of switch-on voltage	0% to 66% line voltage	
Motor data		
Motor voltage	max. 3 x 400VAC	
Motor power	0,1 bis 3,0KW	
Operation cycles	max. 100 run-ups/h	
Relay contact current	max. 8,5Amp.	
Control data		
Run-up time	0,1 - 7,0s stepless adjustable	
Starting torque	0 - 0,5 x nominal torque	
Operating data		
Duty circle	100%	
Operating temperature range	- 30°C to +70°C	
Derating	-	
Storage temperature range	-30°C...+105°C	
Cooling	selfcooling	
	recommended respective distance 15mm each	
Safety devices		
Fuse for input	-	
Fuse for output	-	
Overload protection	-	
MTBF	>380.000 h	
Safety data		
Test voltage transformer	5 kVAc in accordance to VDE 0551	
High voltage resistance	Primary circuit - secondary circuit 3,75 kVAc acc. to VDE 0806 / IEC 380	
Degree of EMI suppresion	in acc. to VDE 0871 B, EN 55022/B	
Protection class	Class 2 (EN 60950)	
Extra low safety potential	-	
Ambient humidity	95% relative humidity, yearly average dewing allowed for use in tropical ambient	
Protective class enclosure	IP 65	
Protective class terminals	IP 20 (VGB4)	
Vibration proof	>30g at 33Hz in X,Y and Z, acc. to IEC 60068-2-27	
Applied construction regulations		
according to VDE	VDE 0100, 0110, 0113, 0551, 0160/W2, 0806	
IEC	IEC 60950, IEC61000-6-1-2-3-4, IEC60068-2-3 IEC 60068-2-11-52, IEC 60529, IEC 380	
EN	EN60950, EN50081-1, EN50081-2, EN50082-1 EN61000-6-1-2-3-4, EN50178, EN55022 EN55011, EN61000-3-3, EN50204, EN61558-2-17 EN60204, EN60529, EN61000-4-2-3-4-5-6-8-11 EN60068-1, EN60068-2-1-2-3-6-27-30 EN45501, EN50021	
CSA / UL	CSA-C 22.2 / UL60950, UL508, UL1950	
Mechanics		
Mounting	on rails acc. to DIN 46277 or wallmounting with screws	

Run-up diagrams

