



SCHAFFLER

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600
PLATFORM

SAVERTER

Sub-micro AC Inverter

Input: 580V DC, or 415V AC 3-phase

Output: 3-phase AC, up to 415V and variable frequency up to 1kHz



Key features:

- 370W to 22kW in cold plate. 45kW in forced ventilation style.
- Small, light-weight
- Reliable
- Shock & Vibration tested
- Cold Plate Style
- Programmable EPROM

The SCHAFFLER SAverters are compact, flexible inverters which allow direct mounting onto an externally provided heatsink. The inverters can be supplied from either 580V DC or 415V AC 3-phase.

The SAverters are designed to drive polyphase induction motors - typically for air-conditioner compressors, fans or radiator blowers. Models are currently available from 370W to 22kW in cold plate style. Models capable of 30kW, 37kW and 45kW are available in forced ventilation style with fans.

The reliability of these units is due to their solid state design. SCHAFFLER products are designed to accommodate the shock and vibration experienced on railways. The SCHAFFLER SAverters are designed with no wires so there is nothing to come loose and are constructed in the characteristic SCHAFFLER Cold Plate style.

The SAverters are programmable for specific applications via the built in keypad or from a PC using software. An innovative EPM programmer allows for cloning to ensure identical setup of multiple inverters.

SCHAFFLER SAverters are best located close to the motor being driven to reduce EMI effects. Where EMI is an issue, additional filters and/or shielded cable may be required.

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General Specifications

Input voltage	580V DC or 415V AC 3-phase
Output voltage	AC 3-phase up to 415V, up to 1kHz
Output power	370W to 22kW - cold plate design 45kW units available in forced ventilation design
Motors	Designed to operate standard polyphase induction motors rated at 415V AC. The inverter can operate at frequencies up to 1kHz.
Enclosure	IP20 with finger safe terminals. Cold plate style - unit typically mounted within enclosure with higher protection rating and fitted to external heatsink.
Thermal Overload	The SAverter is an approved motor protection device for single motor applications by UL and cUL.
Control I/O	18 isolated terminals provide 5 logic inputs, 2 logic outputs, 2 analog inputs and 2 analog outputs plus CANbus serial communication.

Ratings and Dimensions

Model Number	Power (kW)	Output Current (A)	Weight (kg)	Length (mm)	Width (mm)	Height (mm)
SA371	0.37	1.3	0.6	146	93	100
SA751	0.75	2.5	0.9	146	93	120
SA112	1.1	3.6	1.0	146	93	146
SA152	1.5	4.1	1.4	146	114	133
SA222	2.2	5.8	1.4	146	114	133
SA302	3.0	7.6	2.0	146	114	171
SA402	4.0	9.4	2.0	146	114	171
SA552	5.5	12.6	2.0	146	114	171
SA752	7.5	16.1	3.2	197	146	182
SA113	11	24	3.2	197	146	182
SA153	15	31	6.4	248	195	203
SA183	18.5	39	6.4	248	195	203
SA223	22	46	6.4	248	195	203

Standards

EN 50155	Electronic equipment used on rolling stock
IEC 1287-1	Power converters installed on board rolling stock
EN 50121-3-2	Electromagnetic Compatibility
IEC 61000-4-3	EMC standard
IEC 61373	Railway application rolling stock equipment: Shock and vibration testing
BRB/RIA-12	British Rail Standard for transients and surges
AS 3000	Wiring regulations

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