

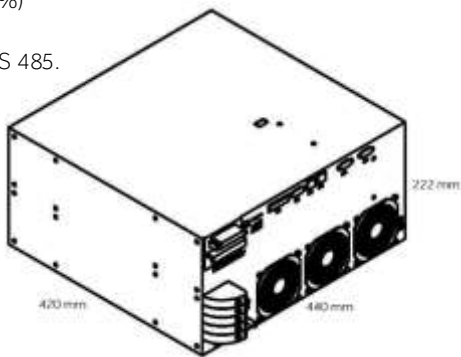


SAF-M active filters are the ideal solution for compensating the most demanding harmonic currents, with any type of non-linear load involved, and has a specially **designed modular design** for easy assembly in the cabinet and flexibility in applications. Installation, by the customer, must include the protection device and 3 CTs.

- **Rated voltage** 3-wire: 380 - 480 Vac
4-wire: 380 - 415 Vac
- **Rated frequency** 50 Hz / 60Hz
- **Inverter topology** 3-level NPC topology, IGBT
- **Switching frequency** 16 kHz
- **Response time** <100 μ s
- **Harmonic currents offset** Up to the 50th harmonic (odd and even orders)
- **Residual THDI (current)** < 5
- **Power supply** Three-phase, 3-wire or 4-wire (3-phase+neutral)
60 Arms / 180 Apk
- **Max. compensated harmonic current / on neutral**

TECHNICAL DATA

Power factor correction	$\cos \varphi = -0.7 \dots 1 \dots 0.7$ (inductive and capacitive correction).
Power losses	<1100 W at full mitigation efficiency (<2.6%) <970 W in typical operation (<2.3%)
Communication interface	Ethernet TCP/IP, Modbus RTU RS 485.
Digital I/O	2 DI + 2 DO.
T.A. Report	xx:5 A or xx:1 A.
Degree of protection	IP 20 / 21.
Weight (single module)	44 Kg.
Assembly	Wall mounting (vertical or horizontal).
Ambient temperature	0 ... 50°C at full power, up to 55°C with 3% degradation per Kelvin.
Noise level	< 56 to 63 dB A (depending on the load situation).
Altitude	< 1000 m without degradation; up to 4000 m with 1% degradation / 100 m



Display Module
In addition the SAF-M filter is equipped with the LCD display module, which is used to monitor the measured values of the three-phase network and to change the filter parameters. A display module fits all power supply modules and can be used in any system configuration, whether it is a single power supply module, a dual power supply or a cabinet installation.



QUALITY AND CERTIFICATIONS

Regulations	IEE 519, EN 61000-3-12
Certifications	CE, UL

Our Active Filter solutions, and their codes, are available on request.