

Fact Sheet | VLT® Advanced Active Filter AAF 007 Enclosed

# Extended functionality for high-performance operation



## VLT® Advanced Active Filter

**AAF 007 Enclosed** has been designed to meet IEC/ IEEE 519 requirements for harmonics in applications with Danfoss drives.

This series of active filters is a smart choice for new and retrofit installations with drives, to meet the most demanding requirements for flexibility, robustness, compactness and service-friendliness.

The VLT® Advanced Active Filter Enclosed series is configurable with input options to meet practically all requirements of the application, eliminating the need for an extra enclosure.

In installations with drives, VLT® Advanced Active Filter Enclosed **complies with IEC 61000-2-4** also **in the frequency range up to 9 kHz**.

This series is the best choice to fulfill regulations for harmonics up to 9 kHz, when harmonics frequencies above 2 kHz in the power supply network are a concern.

## Connection in parallel

A practically unlimited number of filter cabinets can be connected in parallel.

This ensures mitigation harmonics and reactive current compensation in installations with almost unrestricted power rating for drives.

# <5%

total harmonic distortion for \*  
IEEE 519 compliance

## Control panel and Web User Interface

The control panel consists of a 4.3" 480x272 color touchscreen display mounted on the front panel.

It allows simple configuration, diagnostics, monitoring and start and stop the system.

The Web User Interface ensures compatibility for most standard web browsers.

## Protection ratings

- IP21 (Type 1)
- IP54 (Type 12)

## Voltage ranges

- 380-400 V
- 525-690 V

## Current ratings

- **400 V:** 115 A, 215 A and 320 A
- **690 V:** 60 A, 110 A, and 160 A

## Specifications and dimensions

Enclosure size	EA1	EA2	EA3
Rated current at 400 V [A]	115	215	320
Suitable Drive Shaft Power Rating [kW] at 400 V*	90-160	200-315	355-450
Rated current at 690 V [A]	60	110	160
Suitable Drive Shaft Power Rating [kW] at 690 V*	55-90	110-160	200-250
<b>Unit dimensions (including 100 mm plinth)</b>			
Height [mm (in)]	2173 (85.55)		
Width [mm (in)]	402 (15.82)	602 (23.70)	802 (31.57)
Depth [mm (in)]	652 (25.67)		
Weight [kg (lb)]	250 (551.2)	430 (948.0)	600 (1322.8)

\*to fulfil IEC/IEEE 519 requirements for current harmonics with THDi<5%



**1 VLT® Advanced Active Filter modules – AAF 007**, 400 V or 690 V rated active filter modules series AAF 007 connected in parallel. Up to 3 modules can be placed in one enclosure.

**3 Control unit assembly** ensures load sharing between modules connected in parallel and filter performance fulfilling the IEC/IEEE 519 requirements for harmonics.

**4 Mains switch disconnect** is a selectable mains power option.

Possible selections:  
 – No infeed options  
 – Fused disconnect  
 – Disconnect  
 – Fuses

**5 Bottom entry establishment** ensures IP54/NEMA 12 connections to the power supply.

Possible selections for cable infeed:  
 – from bottom  
 – from top

**6 Plinth** is an option: 100 mm, 200 mm, and 400 mm can be selected

**7 Enclosed Active Filter cabinet** utilizes Rittal TS8 baying system