

PRODUCT-DETAILS

ACH580-31-156A-4

LV AC ultra-low harmonic wall-mounted drive for HVAC, IEC: Pn 90 kW, 169 A (ACH580-31-156A-4)



General Information

Global Commercial Alias	ACH580-31-156A-4
Product ID	3AXD50000429103
ABB Type Designation	ACH580-31-156A-4
Catalog Description	LV AC ultra-low harmonic wall-mounted drive for HVAC, IEC: Pn 90 kW, 169 A (ACH580-31-156A-4)

ACH580 HVAC drive offering has all key features built-in to control fans, pumps and compressors, and more complex equipment like air-handling units and chillers, ensuring smooth, energy-efficient operation of your HVAC systems in normal and mission-critical situations. This ultra-low variant provides ultimate harmonic performance, reaching even less than 3 % THDi, and exceeding the requirements set by low harmonic recommendations.

Long Description

The drive includes an active supply unit and integrated low harmonic line filter, meaning there is no need for external filters, multi-pulse arrangements or special transformers. Other features include output voltage boost and power factor correction. The built-in features significantly reduce installation time, and the intuitive HVAC specific control panel and help assistants make operation easy. The optional Bluetooth® capability enables the commissioning and monitoring of the drive from a distance. The variant comes in IP21 enclosure as standard and can be installed on the wall. Also, IP55 and flange mounting units are available.

Ordering

Country of Origin	Finland (FI)
Customs Tariff Number	85044084
Invoice Description	ACH580-31-156A-4 Pcont.max:125kW, lcont.max:156A

Made To Order	Yes
Minimum Order Quantity	1 piece
Order Multiple	1 piece
Quote Only	No
Selling Unit of Measure	piece

Container Information

Gross Volume	126.8 dm³
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Dimensions

Product Net Weight	1180 kg
Product Net Depth / Length	438 mm
Product Net Height	965 mm
Product Net Width	300 mm
Package Level 1 Depth / Length	660 mm
Package Level 1 Height	1150 mm
Package Level 1 Width	500 mm
Package Level 1 Units	1 carton

Technical

Number of Phases	3
Degree of Protection	IP21
Enclosure Type NEMA	Type1
Frequency (f)	50/60 Hz
Frame Size	R8
Input Voltage (U_{in})	380 ... 480 V
Mounting Type	Wall-mounted
Output Current, Heavy-Duty Use (I_{HD})	145 A
Output Current, Light-Overload Use (I_{LD})	161 A
Output Current, Normal Use (I_n)	169 A
Output Power, Heavy-Duty Use (P_{HD})	75 kW
Output Power, Light-Overload Use (P_{LD})	90 kW
Output Power, Normal Use (P_n)	90 kW
Ecodesign Exemption	Energy efficiency data is not provided for the drive. The low-harmonic drives are exempt from the EU ecodesign requirements (Regulation EU/2019/1781, §2.3.d).

Additional Information

Product Main Type	ACH580-31-156A-4
Product Name	Frequency Converter

Classifications	
UNSPSC	39122001

Environmental	
WEEE Category	4. Large Equipment (Any External Dimension More Than 50 cm)

Categories	
Drives → Low Voltage AC Drives → Industry-Specific Drives → Drives for HVAC → ACH580-31 - Wall-mounted ultra low harmonic drive for HVAC	

