

PRODUCT-DETAILS

ACH580-31-124A-4

LV AC ultra-low harmonic wall-mounted drive for HVAC, IEC: Pn 75 kW, 145 A (ACH580-31-124A-4)



General Information	
Global Commercial Alias	ACH580-31-124A-4
Product ID	3AXD50000429097
ABB Type Designation	ACH580-31-124A-4
EAN	6438177594635
Catalog Description	LV AC ultra-low harmonic wall-mounted drive for HVAC, IEC: Pn 75 kW, 145 A (ACH580-31-124A-4)
Long Description	<p>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.</p> <p>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.</p>

Ordering

Country of Origin	Finland (FI)
Customs Tariff Number	85044084
Invoice Description	ACH580-31-124A-4 PN: 75 kW, IN: 145 A
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	126.801 dm³
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Dimensions

Product Net Weight	118 kg
Product Net Depth / Length	438 mm
Product Net Height	965 mm
Product Net Width	300 mm
Package Level 1 Depth / Length	654 mm
Package Level 1 Height	1158 mm
Package Level 1 Width	502 mm
Package Level 1 Units	1 carton

Technical

Number of Phases	3
Degree of Protection	IP21
Enclosure Type NEMA	Type1
Altitude	1000 m
Sound dB (A)	68.0 dB(A)
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})	106 A
Output Current, Light-Overload Use (I _{LD})	138 A
Output Current, Normal Use (I _n)	145 A
Output Power, Heavy-Duty Use (P _{HD})	55 kW
Output Power, Light-Overload Use (P _{LD})	75 kW
Output Power, Normal Use (P _n)	75 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
Product Name	Frequency converter

Classifications

UNSPSC	39122001
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Environmental

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

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

