

PRODUCT-DETAILS

# ACH580-34-477A-4

## LV AC ultra-low harmonic drive module for HVAC, IEC: Pn 250 kW, 505 A (ACH580-34-477A-4)



General Information	
Global Commercial Alias	ACH580-34-477A-4
Product ID	3AXD50000428144
ABB Type Designation	ACH580-34-477A-4
Catalog Description	LV AC ultra-low harmonic drive module for HVAC, IEC: Pn 250 kW, 505 A (ACH580-34-477A-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. The ultra-low drive module 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 IP00 enclosure as standard and for cabinet installation Also, IP20 enclosure is available.</p>

Ordering	
Country of Origin	Finland (FI)

Customs Tariff Number	85044084
Invoice Description	ACH580-34-477A-4 PN:kw, IN:A
Made To Order	No
Minimum Order Quantity	1 piece
Order Multiple	1 piece
Quote Only	No
Selling Unit of Measure	piece

Dimensions

Product Net Weight	376 kg
Product Net Depth / Length	636 mm
Product Net Height	1741 mm
Product Net Width	506 mm
Package Level 1 Depth / Length	1080 mm
Package Level 1 Height	2050 mm
Package Level 1 Width	650 mm
Package Level 1 Units	1 carton

Technical

Number of Phases	3
Degree of Protection	IP00
Enclosure Type NEMA	Open Type
Frequency (f)	50/60 Hz
Frame Size	R11
Input Voltage (U <sub>in</sub> )	380 ... 480 V
Mounting Type	Module for cabinet building
Output Current, Heavy-Duty Use (I <sub>HD</sub> )	365 A
Output Current, Light-Overload Use (I <sub>LD</sub> )	480 A
Output Current, Normal Use (I <sub>n</sub> )	505 A
Output Power, Heavy-Duty Use (P <sub>HD</sub> )	200 kW
Output Power, Light-Overload Use (P <sub>LD</sub> )	250 kW
Output Power, Normal Use (P <sub>n</sub> )	250 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	ACH580-34-477A-4
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 → ACH580-34 - Ultra-low harmonic drive module for HVAC

Drives → Services → Spares and Consumables → Parts

