

PRODUCT-DETAILS

ACH580-01-169A-4+B056

LV AC wall-mounted drive for HVAC, IEC: Pn 90 kW, 169 A (ACH580-01-169A-4+B056)



General Information

Global Commercial Alias	ACH580-01-169A-4+B056
Product ID	3ABD00045705-D
ABB Type Designation	ACH580-01-169A-4+B056
Catalog Description	LV AC wall-mounted drive for HVAC, IEC: Pn 90 kW, 169 A (ACH580-01-169A-4+B056)
Long Description	<p>The 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 a smooth, energy-efficient operation of your HVAC systems in normal and mission-critical situations. The built-in features significantly reduce installation time and the intuitive control panel with an HVAC-specific primary settings menu and help assistants make startup, commissioning, and operation easy. The optional Bluetooth® capability enables the commissioning and monitoring of the drive from a distance. The ACH580-01 comes in an IP21 enclosure and can be installed on the wall as standard. In addition, IP55 and flange mounting units are available.</p>

Ordering

Country of Origin	China (CN)
Customs Tariff Number	85044099
Invoice Description	ACH580-01-169A-4+B056 PN: 90kW, IN: 169A
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	54 kg
Product Net Depth / Length	370 mm
Product Net Height	880 mm
Product Net Width	284 mm
Package Level 1 Units	0 carton

Technical

Number of Phases	3
Degree of Protection	IP55
Enclosure Type NEMA	Type12
Frequency (f)	47.5 ... 63 Hz
Frame Size	R7
Input Voltage (U_{in})	380 ... 500 V
Mounting Type	Wall-mounted_NO UNIT\$
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
Efficiency Level	IE2
Complete Drive Module Efficiency (61800-9-2)	

Operating Point Frequency / Current	Absolute Loss	Relative Loss	Efficiency
0 / 25 %	556 W	0.5 %	92.0 %
0 / 50 %	754 W	0.6 %	94.2 %
0 / 100 %	1317 W	1.1 %	94.8 %
50 / 25 %	611 W	0.5 %	95.6 %
50 / 50 %	860 W	0.7 %	96.7 %
50 / 100 %	1547 W	1.3 %	97.0 %
90 / 50 %	1013 W	0.9 %	97.8 %
90 / 100 %	2021 W	1.7 %	97.8 %

Additional Information

Product Name	Frequency Converter
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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 → ACH580-01 - Wall-mounted drive for HVAC

