

PRODUCT-DETAILS

ACH580-01-293A-4

LV AC wall-mounted drive for HVAC, IEC: Pn
160 kW, 293 A (ACH580-01-293A-4)



General Information

Global Commercial Alias	ACH580-01-293A-4
Product ID	3ABD00045419-D
ABB Type Designation	ACH580-01-293A-4
Catalog Description	LV AC wall-mounted drive for HVAC, IEC: Pn 160 kW, 293 A (ACH580-01-293A-4)
Long Description	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.

Ordering

Country of Origin	China (CN)
Customs Tariff Number	85044099
Invoice Description	ACH580-01-293A-4 PN: 160kW, IN: 293A
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	69 kg
Product Net Depth / Length	393 mm
Product Net Height	965 mm
Product Net Width	300 mm
Package Level 1 Units	0 carton

Technical

Number of Phases	3
Degree of Protection	IP21
Enclosure Type NEMA	Type1
Frequency (f)	47.5 ... 63 Hz
Frame Size	R8
Input Voltage (U_{in})	380 ... 480 V
Mounting Type	Wall-mounted_NO UNIT\$
Output Current, Heavy-Duty Use (I_{HD})	246 A
Output Current, Light-Overload Use (I_{LD})	278 A
Output Current, Normal Use (I_n)	293 A
Output Power, Heavy-Duty Use (P_{HD})	132 kW
Output Power, Light-Overload Use (P_{LD})	160 kW
Output Power, Normal Use (P_n)	160 kW
Efficiency Level	IE2
Complete Drive Module Efficiency (61800-9-2)	

Operating Point Frequency / Current	Absolute Loss	Relative Loss	Efficiency
0 / 25 %	981 W	0.5 %	91.8 %
0 / 50 %	1382 W	0.7 %	93.9 %
0 / 100 %	2541 W	1.3 %	94.3 %
50 / 25 %	1088 W	0.5 %	95.5 %
50 / 50 %	1582 W	0.8 %	96.5 %
50 / 100 %	3032 W	1.5 %	96.6 %
90 / 50 %	1907 W	0.9 %	97.7 %
90 / 100 %	4071 W	2.0 %	97.5 %

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

