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 PRODUCT-DETAILS

# ACH580-04-585A-4

LV AC drive module for HVAC, IEC: Pn 315 kW,  
585 A (ACH580-04-585A-4)




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**General Information**

Global Commercial Alias	ACH580-04-585A-4
Product ID	3ABD00046069-D
ABB Type Designation	ACH580-04-585A-4
Catalog Description	LV AC drive module for HVAC, IEC: Pn 315 kW, 585 A (ACH580-04-585A-4)
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.</p> <p>The ACH580-04 drive module comes in an IP00 enclosure as standard for cabinet installation. In addition, an IP20 enclosure is available.</p>

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**Ordering**

Country of Origin	China (CN)
Customs Tariff Number	85044099
Invoice Description	ACH580-04-585A-4 PN: 315kW, IN: 585A
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	161 kg
Product Net Depth / Length	529 mm
Product Net Height	1462 mm
Product Net Width	345 mm
Package Level 1 Depth / Length	1000 mm
Package Level 1 Height	500 mm
Package Level 1 Width	400 mm
Package Level 1 Units	0 carton

## Technical

Number of Phases	3
Degree of Protection	IP00
Enclosure Type NEMA	Open Type
Frequency (f)	47.5 ... 63 Hz
Frame Size	R10
Input Voltage ( $U_{in}$ )	380 ... 480 V
Mounting Type	Cabinet-built_NO UNIT\$
Output Current, Heavy-Duty Use ( $I_{HD}$ )	429 A
Output Current, Light-Overload Use ( $I_{LD}$ )	575 A
Output Current, Normal Use ( $I_n$ )	585 A
Output Power, Heavy-Duty Use ( $P_{HD}$ )	250 kW
Output Power, Light-Overload Use ( $P_{LD}$ )	315 kW
Output Power, Normal Use ( $P_n$ )	315 kW
Efficiency Level	IE2
Complete Drive Module Efficiency (61800-9-2)	

Operating Point Frequency / Current	Absolute Loss	Relative Loss	Efficiency
0 / 25 %	1889 W	0.4 %	93.2 %
0 / 50 %	2690 W	0.6 %	95.0 %
0 / 100 %	4866 W	1.0 %	95.4 %
50 / 25 %	2030 W	0.4 %	96.4 %
50 / 50 %	2990 W	0.6 %	97.3 %
50 / 100 %	5617 W	1.2 %	97.4 %
90 / 50 %	3427 W	0.7 %	98.2 %
90 / 100 %	6840 W	1.4 %	98.2 %

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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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### Additional Information

Product Name

Frequency Converter

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### Categories

Drives → Low Voltage AC Drives → Industry-Specific Drives → Drives for HVAC → ACH580-04 - Drive module for HVAC

