

PRODUCT-DETAILS

# ACH580-04-505A-4

LV AC drive module for HVAC, IEC: Pn 250 kW, 505 A (ACH580-04-505A-4)



## General Information

Global Commercial Alias	ACH580-04-505A-4
Product ID	3ABD00046068-D
ABB Type Designation	ACH580-04-505A-4
Catalog Description	LV AC drive module for HVAC, IEC: Pn 250 kW, 505 A (ACH580-04-505A-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. The ACH580-04 drive module comes in an IP00 enclosure as standard for cabinet installation. In addition, an IP20 enclosure is available.</p>

## Ordering

Country of Origin	China (CN)
Customs Tariff Number	85044099
Invoice Description	ACH580-04-505A-4 PN: 250kW, IN: 505A
Made To Order	No

Minimum Order Quantity	1 piece
Order Multiple	1 piece
Quote Only	No
Selling Unit of Measure	piece

### Container Information

Gross Volume	161 dm³
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### 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 ( $I_{HD}$ )	361 A
Output Current, Light-Overload Use ( $I_{LD}$ )	485 A
Output Current, Normal Use ( $I_n$ )	505 A
Output Power, Heavy-Duty Use ( $P_{HD}$ )	200 kW
Output Power, Light-Overload Use ( $P_{LD}$ )	250 kW
Output Power, Normal Use ( $P_n$ )	250 kW
Efficiency Level	IE2

Complete Drive Module  
Efficiency (61800-9-2)

Operating Point Frequency / Current	Absolute Loss	Relative Loss	Efficiency
0 / 25 %	1842 W	0.4 %	92.4 %
0 / 50 %	2604 W	0.6 %	94.4 %
0 / 100 %	4581 W	1.1 %	95.0 %
50 / 25 %	1971 W	0.5 %	95.9 %
50 / 50 %	2864 W	0.7 %	97.0 %
50 / 100 %	5299 W	1.3 %	97.2 %
90 / 50 %	3275 W	0.8 %	98.1 %
90 / 100 %	6492 W	1.5 %	98.1 %

Additional Information

Product NameFrequency Converter

Classifications

UNSPSC39122001

Environmental

WEEE Category4. Large Equipment (Any External Dimension More Than 50 cm)

Categories

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

