

PRODUCT-DETAILS

ACH531-01-430A-4+P972

, IEC: Pn 250 kW, 430 A (ACH531-01-430A-4+P972)



General Information

Global Commercial Alias	ACH531-01-430A-4+P972
Product ID	3ABD00058687-D
ABB Type Designation	ACH531-01-430A-4+P972
Catalog Description	, IEC: Pn 250 kW, 430 A (ACH531-01-430A-4+P972)

Long Description

The ACH531 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 standard basic control panel can make startup, commissioning, and operation easy. The optional Bluetooth® capability enables the commissioning and monitoring of the drive from a distance. The ACH531-01 comes in an IP20 enclosure and can be installed on the wall as standard.

Ordering

Country of Origin	China (CN)
Customs Tariff Number	85044099
Invoice Description	ACH531-01-430A-4+P972 PN: 250kW, IN: 430A
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	84.8 kg
Product Net Depth / Length	418 mm
Product Net Height	680 mm
Product Net Width	300 mm
Package Level 1 Depth / Length	1160 mm
Package Level 1 Height	650 mm
Package Level 1 Width	490 mm
Package Level 1 Units	1 carton

Technical

Number of Phases	3
Degree of Protection	IP20
Enclosure Type NEMA	Open Type
Frequency (f)	47.5 ... 63 Hz
Frame Size	R9
Input Voltage (U_{in})	380 ... 500 V
Mounting Type	Wall-mounted_NO UNIT\$
Output Current, Light-Overload Use (I_{LD})	400 A
Output Current, Normal Use (I_n)	430 A
Output Power, Light-Overload Use (P_{LD})	200 kW
Output Power, Normal Use (P_n)	250 kW
Complete Drive Module Efficiency (61800-9-2)	

Operating Point Frequency / Current	Absolute Loss	Relative Loss	Efficiency
0 / 25 %	1466 W	0.5 %	91.6 %
0 / 50 %	2117 W	0.7 %	93.7 %
0 / 100 %	4027 W	1.4 %	93.9 %
50 / 25 %	1610 W	0.5 %	95.4 %
50 / 50 %	2388 W	0.8 %	96.5 %
50 / 100 %	4671 W	1.6 %	96.5 %
90 / 50 %	2816 W	0.9 %	97.7 %
90 / 100 %	6067 W	2 %	97.5 %

Additional Information	
Product Name	frequency converter

Classifications	
UNSPSC	39122001

Categories	
Drives → Low Voltage AC Drives → Industry-Specific Drives → Drives for HVAC → ACH531-01 - Wall-mounted drive for HVAC	

