

## PRODUCT-DETAILS

# ACH531-01-169A-4+J400

LV AC wall-mounted drive for HVAC, IEC: Pn 90 kW, 169 A (ACH531-01-169A-4+J400)



## General Information

Global Commercial Alias	ACH531-01-169A-4+J400
Product ID	3ABD00046773
ABB Type Designation	ACH531-01-169A-4+J400
Catalog Description	LV AC wall-mounted drive for HVAC, IEC: Pn 90 kW, 169 A (ACH531-01-169A-4+J400)
Long Description	<p>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.</p>

## Ordering

Country of Origin	China (CN)
Customs Tariff Number	85044099
Invoice Description	ACH531-01-169A-4+J400 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	49.6 kg
Product Net Depth / Length	370 mm
Product Net Height	600 mm
Product Net Width	284 mm
Package Level 1 Depth / Length	970 mm
Package Level 1 Height	600 mm
Package Level 1 Width	380 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	R7
Input Voltage ( $U_{in}$ )	380 ... 500 V
Mounting Type	Wall-mounted_NO UNIT\$
Output Current, Light-Overload Use ( $I_{LD}$ )	161 A
Output Current, Normal Use ( $I_n$ )	169 A
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 / 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 %
90 / 50 %	1013 W	0.9 %	97.8 %
90 / 100 %	2021 W	1.7 %	97.8 %

Additional Information

Product Namefrequency converter

Classifications

UNSPSC39122001

Environmental

WEEE CategoryProduct Not in WEEE Scope

Categories

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

