

PRODUCT-DETAILS

# ACH531-01-046A-4+P972

, IEC: Pn 22 kW, 46 A (ACH531-01-046A-4+P972)



General Information	
Global Commercial Alias	ACH531-01-046A-4+P972
Product ID	3ABD00058676-D
ABB Type Designation	ACH531-01-046A-4+P972
Catalog Description	, IEC: Pn 22 kW, 46 A (ACH531-01-046A-4+P972)
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	ACH531-01-046A-4+P972 PN: 22kW, IN: 46A
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	12 kg
Product Net Depth / Length	228 mm
Product Net Height	490 mm
Product Net Width	203 mm
Package Level 1 Depth / Length	610 mm
Package Level 1 Height	425 mm
Package Level 1 Width	290 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	R3
Input Voltage ( $U_{in}$ )	380 ... 500 V
Mounting Type	Wall-mounted_NO UNIT\$
Output Current, Light-Overload Use ( $I_{LD}$ )	42.8 A
Output Current, Normal Use ( $I_n$ )	46 A
Output Power, Light-Overload Use ( $P_{LD}$ )	22 kW
Output Power, Normal Use ( $P_n$ )	22 kW
Complete Drive Module Efficiency (61800-9-2)	

Operating Point Frequency / Current	Absolute Loss	Relative Loss	Efficiency
0 / 25 %	196 W	0.6 %	89.4 %
0 / 50 %	258 W	0.8 %	92.5 %
0 / 100 %	465 W	1.5 %	93.2 %
50 / 25 %	213 W	0.7 %	94.2 %
50 / 50 %	290 W	0.9 %	95.8 %
50 / 100 %	545 W	1.7 %	96 %
90 / 50 %	327 W	1 %	97.3 %
90 / 100 %	677 W	2.2 %	97.2 %

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	

