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 PRODUCT-DETAILS

## ACH580-01-169A-4+B056

LV AC wall-mounted drive for HVAC, IEC: Pn 90 kW, 169 A, 400 V, UL: Pld 125 Hp, 156 A (ACH580-01-169A-4+B056)




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**General Information**

Global Commercial Alias	ACH580-01-169A-4+B056
Product ID	3AUA0000083605
ABB Type Designation	ACH580-01-169A-4+B056
EAN	6438177306368

Catalog Description	LV AC wall-mounted drive for HVAC, IEC: Pn 90 kW, 169 A, 400 V, UL: Pld 125 Hp, 156 A (ACH580-01-169A-4+B056)
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Long Description	<p>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 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 makes startup, commissioning and operation easy. The optional Bluetooth® capability enables the commissioning and monitoring of the drive from a distance. The ACH580-01 comes in IP21 enclosure and can be installed on the wall as standard. Also, IP55 and flange mounting units are available.</p>
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**Ordering**

Customs Tariff Number	85044086
HS Code	850440 -- ELECTRICAL MACHINERY AND EQUIPMENT AND PARTS

THEREOF; SOUND RECORDERS AND REPRODUCERS, TELEVISION IMAGE AND SOUND RECORDERS AND REPRODUCERS, AND PARTS AND ACCESSORIES OF SUCH ARTICLES;Electrical transformers, static converters (for example, rectifiers) and inductors;Static converters

Invoice Description	ACH580-01-169A-4+B056 PN: 90 kW, IN: 169 A
Made To Order	Yes
Minimum Order Quantity	1 piece
Order Multiple	1 piece
Quote Only	No
Selling Unit of Measure	piece

**Dimensions**

Product Net Weight	56 kg 123.459 lb
Product Net Depth / Length	381.00 mm 15.000 in
Product Net Height	880.00 mm 34.646 in
Product Net Width	284.00 mm 11.181 in
Package Level 1 Depth / Length	992.00 mm 39.055 in
Package Level 1 Height	568.00 mm 22.362 in
Package Level 1 Width	400.00 mm 15.748 in
Package Level 1 Units	1 case

**Technical**

Number of Phases	3-phase
Degree of Protection	IP55
Enclosure Type NEMA	Type12
Multiple Battery Information	95 Lithium Coin, CR2032, 220 mAh, 3 V, 1 pc, 3 g
Frequency (f)	47.5 ... 63 Hz
Frame Size	R7
Input Voltage (U <sub>in</sub> )	380 ... 480 V
Mounting Type	Wall-mounted
Communication Protocol	BACNET CAN DeviceNet EtherNet/IP LON MODBUS Other Bus Systems PROFIBUS PROFINET IO TCP/IP
Number of Hardware Interfaces	Industrial Ethernet 0 Other 2 Parallel 2 PROFINET 0 RS-232 0 RS-422 0 RS-485 1 Serial TTY 0 USB 1

Includes	With control unit
	Without optical interface With PC connection
Analog Inputs	2
Analog Outputs	2
Number of Digital In/Outputs	6/3
Output Current, Normal Use ( $I_n$ )	169 A
Output Current, Light-Overload Use ( $I_{LD}$ )	161 A
Output Current, Heavy-Duty Use ( $I_{HD}$ )	145 A
Output Power, Normal Use ( $P_n$ )	90 kW
Output Power, Light-Overload Use ( $P_{LD}$ )	90 kW
Output Power, Heavy-Duty Use ( $P_{HD}$ )	75 kW
Apparent Power Output	2021 W
Efficiency Level	117 kV·A
Standby Loss	IE2
Complete Drive Module Efficiency (IEC61800-9-2)	36 W

Operating Point Frequency / Current	Absolute Loss	Efficiency	Relative Loss
0/25 %	556 W	92.0 %	0.5 %
0/50 %	754 W	94.2 %	0.6 %
0/100 %	1317 W	94.8 %	1.1 %
50/25 %	611 W	95.6 %	0.5 %
50/50 %	860 W	96.7 %	0.7 %
50/100 %	1547 W	97.0 %	1.3 %
90/50 %	1013 W	97.8 %	0.9 %
90/100 %	2021 W	97.8 %	1.7 %

Temperature Rating	Maximum 40 °C Minimum -15 °C
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**Technical UL**

Output Current, Heavy-Duty Use (UL)	124 A
Output Current, Light-Overload Use (UL)	156 A
Output Power, Light-Overload Use (UL)	125 Hp

**Certificates and Declarations**

Declaration of Conformity - CE	3AXD10001818627
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REACH Date	20250905
REACH Declaration	9AKK107992A7060
REACH Information	True - contains substances > 0.1 mass percentage
RoHS Date	20240508
RoHS Declaration	3AXD10001818627
RoHS Information	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019

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## Environmental

SCIP	93c4256e-49ac-4f3a-a0ee-89382f71d90e Finland
WEEE Category	4. Large Equipment (Any External Dimension More Than 50 cm)

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## External Classifications and Standards

ETIM 9	EC001857 - Frequency converter =< 1 kV
UNSPSC	39122001

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## Categories

Drives → Low Voltage AC Drives → Industry-Specific Drives → Drives for HVAC → ACH580-01 - Wall-mounted drive for HVAC

