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**PRODUCT-DETAILS**

## ACH580-01-04A1-4

**LV AC wall-mounted drive for HVAC, IEC: Pn 1.5 kW, 4 A, 400 V, UL: Pld 2 Hp, 3.4 A (ACH580-01-04A1-4)**



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**General Information**

Global Commercial Alias	ACH580-01-04A1-4
Product ID	3AXD50000038983
ABB Type Designation	ACH580-01-04A1-4
EAN	6438177459439
Catalog Description	LV AC wall-mounted drive for HVAC, IEC: Pn 1.5 kW, 4 A, 400 V, UL: Pld 2 Hp, 3.4 A (ACH580-01-04A1-4)
Long Description	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.

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**Ordering**

Customs Tariff Number	85044085
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

<u>Invoice Description</u>	(for example, rectifiers) and inductors; Static converters
<u>Made To Order</u>	ACH580-01-04A1-4 PN: 1.5 kW, IN: 4.0 A
<u>Minimum Order Quantity</u>	Yes
<u>Order Multiple</u>	1 piece
<u>Quote Only</u>	1 piece
<u>Selling Unit of Measure</u>	No
	piece

## Dimensions

<u>Product Net Weight</u>	4.6 kg 10.141 lb
<u>Product Net Depth / Length</u>	223.00 mm 8.78 in
<u>Product Net Height</u>	373.00 mm 14.69 in
<u>Product Net Width</u>	125.00 mm 4.92 in
<u>Package Level 1 Depth / Length</u>	225.00 mm 8.858 in
<u>Package Level 1 Height</u>	370.00 mm 14.567 in
<u>Package Level 1 Width</u>	526.00 mm 20.709 in
<u>Package Level 1 Units</u>	1 carton

## Certificates and Declarations

<u>Declaration of Conformity</u>	3AXD10001818627
- CE	
<u>REACH Date</u>	20250320
<u>REACH Declaration</u>	9AKK107992A7060
<u>REACH Information</u>	True - contains substances > 0.1 mass percentage
<u>RoHS Date</u>	20240508
<u>RoHS Declaration</u>	3AXD10001818627
<u>RoHS Information</u>	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019

## Technical

<u>Number of Phases</u>	3-phase
<u>Degree of Protection</u>	IP21
<u>Enclosure Type NEMA</u>	Type1
<u>Altitude</u>	1000 m 95
<u>Sound dB (A)</u>	59 dB(A)
<u>Multiple Battery Information</u>	Lithium Coin, CR2032, 220 mAh, 3 V, 1 pc, 3 g
<u>Frequency (f)</u>	47.5 ... 63 Hz
<u>Frame Size</u>	R1
<u>Input Voltage (U<sub>in</sub>)</u>	380 ... 480 V
<u>Mounting Type</u>	Wall-mounted
<u>Communication Protocol</u>	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	Control unit PC connection		
Analog Inputs	2		
Analog Outputs	2		
Number of Digital In/Outputs	6/3		
Output Current, Normal Use ( $I_n$ )	4 A		
Output Current, Light-Overload Use ( $I_{LD}$ )	3.8 A		
Output Current, Heavy-Duty Use ( $I_{HD}$ )	3.3 A		
Output Power, Normal Use ( $P_n$ )	1.5 kW		
Output Power, Light-Overload Use ( $P_{LD}$ )	1.5 kW		
Output Power, Heavy-Duty Use ( $P_{HD}$ )	1.1 kW		
Apparent Power Output	60 W		
Efficiency Level	2.8 kV·A		
Standby Loss	IE2		
Complete Drive Module Efficiency (IEC61800-9-2)	14 W		
Operating Point Frequency / Current	Absolute Loss	Efficiency	Relative Loss
0/25 %	34 W	81.0 %	1.2 %
0/50 %	38 W	88.2 %	1.4 %
0/100 %	47 W	91.8 %	1.7 %
50/25 %	36 W	89.6 %	1.3 %
50/50 %	40 W	93.6 %	1.5 %
50/100 %	52 W	95.5 %	1.9 %
90/50 %	44 W	96.0 %	1.6 %
90/100 %	60 W	97.0 %	2.2 %
Temperature Rating	Maximum 40 °C Minimum -15 °C		

### Technical UL

Output Current, Heavy-Duty Use (UL)	3.0 A
Output Current, Light-Overload Use (UL)	3.4 A
Output Power, Light-Overload Use (UL)	2 Hp

### External Classifications and Standards

UNSPSC

39122001

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**Environmental**

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SCIP

a5c3dd71-8ecd-44d9-98e4-45c53b6836e1 Finland

WEEE Category5. Small Equipment (No External Dimension More Than 50 cm)

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**Categories**

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

