



PRODUCT-DETAILS

ACH580-01-05A7-4

LV AC wall-mounted drive for HVAC, IEC: Pn 2.2 kW, 5.6 A, 400 V, UL: Pld 3 Hp, 4.8 A (ACH580-01-05A7-4)



General Information

Global Commercial Alias	ACH580-01-05A7-4
Product ID	3AXD50000038984
ABB Type Designation	ACH580-01-05A7-4
EAN	6438177459446
Catalog Description	LV AC wall-mounted drive for HVAC, IEC: Pn 2.2 kW, 5.6 A, 400 V, UL: Pld 3 Hp, 4.8 A (ACH580-01-05A7-4)

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.

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>	ACH580-01-05A7-4 PN: 2.2 kW, IN: 5.6 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_{in})</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)	5.6 A		
Output Current, Light- Overload Use (I_{LD})	5.3 A		
Output Current, Heavy- Duty Use (I_{HD})	4.0 A		
Output Power, Normal Use (P_n)	2.2 kW		
Output Power, Light- Overload Use (P_{LD})	2.2 kW		
Output Power, Heavy- Duty Use (P_{HD})	1.5 kW		
Apparent Power Output	85 W		
Efficiency Level	3.9 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 %	41 W	83.3 %	1.1 %
0/50 %	47 W	89.4 %	1.2 %
0/100 %	62 W	92.3 %	1.6 %
50/25 %	43 W	90.8 %	1.1 %
50/50 %	51 W	94.2 %	1.3 %
50/100 %	70 W	95.6 %	1.8 %
90/50 %	56 W	96.3 %	1.5 %
90/100 %	85 W	97.0 %	2.2 %
Temperature Rating	Maximum 40 °C Minimum -15 °C		

Technical UL

Output Current, Heavy- Duty Use (UL)	3.4 A
Output Current, Light- Overload Use (UL)	4.8 A
Output Power, Light- Overload Use (UL)	3 Hp

External Classifications and Standards

UNSPSC

39122001

Environmental

SCIP

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

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

Categories

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

