



PRODUCT-DETAILS

ACH580-01-03A4-4+B056

LV AC wall-mounted drive for HVAC, IEC: Pn 1.1 kW, 3.3 A, 400 V, UL: Pld 1.5 Hp, 3.0 A (ACH580-01-03A4-4+B056)



General Information

Global Commercial Alias	ACH580-01-03A4-4+B056
Product ID	3AXD50000038999
ABB Type Designation	ACH580-01-03A4-4+B056
EAN	6438177459545
Catalog Description	LV AC wall-mounted drive for HVAC, IEC: Pn 1.1 kW, 3.3 A, 400 V, UL: Pld 1.5 Hp, 3.0 A (ACH580-01-03A4-4+B056)
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>

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 (for example, rectifiers) and inductors; Static converters

Invoice Description	ACH580-01-03A4-4+B056 PN: 1.1 kW, IN: 3.3 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	4.8 kg 10.582 lb
Product Net Depth / Length	233.00 mm 9.173 in
Product Net Height	403 mm 15.866 in
Product Net Width	128.00 mm 5.039 in
Package Level 1 Depth / Length	225.00 mm 8.858 in
Package Level 1 Height	370.00 mm 14.567 in
Package Level 1 Width	526.00 mm 20.709 in
Package Level 1 Units	1 carton

Certificates and Declarations

Declaration of Conformity - CE	3AXD10001818627
REACH Date	20250320
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

Technical

Number of Phases	3-phase
Degree of Protection	IP55
Enclosure Type NEMA	Type12
	95
Multiple Battery Information	Lithium Coin, CR2032, 220 mAh, 3 V, 1 pc, 3 g
Frequency (f)	47.5 ... 63 Hz
Frame Size	R1
Input Voltage (U _{in})	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	3.3 A																																						
Use (I_n)																																							
Output Current, Light-	3.1 A																																						
Overload Use (I_{LD})																																							
Output Current, Heavy-	2.6 A																																						
Duty Use (I_{HD})																																							
Output Power, Normal	1.1 kW																																						
Use (P_n)																																							
Output Power, Light-	1.1 kW																																						
Overload Use (P_{LD})																																							
Output Power, Heavy-	0.8 kW																																						
Duty Use (P_{HD})	51 W																																						
Apparent Power Output	2.3 kV·A																																						
Efficiency Level	IE2																																						
Standby Loss	14 W																																						
Complete Drive Module Efficiency (IEC61800-9-2)																																							
<table border="1"> <thead> <tr> <th>Operating Point Frequency / Current</th><th>Absolute Loss</th><th>Efficiency</th><th>Relative Loss</th></tr> </thead> <tbody> <tr> <td>0/25 %</td><td>32 W</td><td>79.2 %</td><td>1.4 %</td></tr> <tr> <td>0/50 %</td><td>34 W</td><td>87.2 %</td><td>1.5 %</td></tr> <tr> <td>0/100 %</td><td>41 W</td><td>91.4 %</td><td>1.8 %</td></tr> <tr> <td>50/25 %</td><td>33 W</td><td>88.5 %</td><td>1.4 %</td></tr> <tr> <td>50/50 %</td><td>36 W</td><td>93.1 %</td><td>1.6 %</td></tr> <tr> <td>50/100 %</td><td>45 W</td><td>95.2 %</td><td>2.0 %</td></tr> <tr> <td>90/50 %</td><td>39 W</td><td>95.7 %</td><td>1.7 %</td></tr> <tr> <td>90/100 %</td><td>51 W</td><td>96.9 %</td><td>2.2 %</td></tr> </tbody> </table>				Operating Point Frequency / Current	Absolute Loss	Efficiency	Relative Loss	0/25 %	32 W	79.2 %	1.4 %	0/50 %	34 W	87.2 %	1.5 %	0/100 %	41 W	91.4 %	1.8 %	50/25 %	33 W	88.5 %	1.4 %	50/50 %	36 W	93.1 %	1.6 %	50/100 %	45 W	95.2 %	2.0 %	90/50 %	39 W	95.7 %	1.7 %	90/100 %	51 W	96.9 %	2.2 %
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Temperature Rating	Maximum 40 °C Minimum -15 °C																																						

Technical UL

Output Current, Heavy-Duty Use (UL)	2.1 A
Output Current, Light-Overload Use (UL)	3.0 A
Output Power, Light-Overload Use (UL)	1.5 Hp

External Classifications and Standards

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

Environmental

SCIP	85773b93-5c45-45c8-a538-ebdaaaf96ece Finland
WEEE Category	5. 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

