



 PRODUCT-DETAILS

ACH580-01-03A4-4

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)



General Information

Global Commercial Alias	ACH580-01-03A4-4
Product ID	3AXD50000038982
ABB Type Designation	ACH580-01-03A4-4
EAN	6438177459422

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)
---------------------	---

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 transformers, static converters (for example, rectifiers)

and inductors.- Static converters

Invoice Description	ACH580-01-03A4-4 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	4.6 kg 10.141 lb
Product Net Depth / Length	223.00 mm 8.78 in
Product Net Height	373.00 mm 14.69 in
Product Net Width	125.00 mm 4.92 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	20241203
REACH Declaration	9AKK107992A7060
REACH Information	True - contains substances > 0.1 mass percentage
RoHS Date	20240508
RoHS Information	3AXD10001818627
RoHS Status	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019

Technical

Number of Phases	3
Degree of Protection	IP21
Enclosure Type NEMA	Type1
Altitude	1000 m 95
Sound dB (A)	59 dB(A)
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	Control unit PC connection
Analog Inputs	2
Analog Outputs	2
Number of Digital In/Outputs	6 / 3
Output Current, Normal Use (I_n)	3.3 A
Output Current, Light-Overload Use (I_{LD})	3.1 A
Output Current, Heavy-Duty Use (I_{HD})	2.6 A
Output Power, Normal Use (P_n)	1.1 kW
Output Power, Light-Overload Use (P_{LD})	1.1 kW
Output Power, Heavy-Duty Use (P_{HD})	0.8 kW
Apparent Power Output	51 W
Efficiency Level	2.3 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 %	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 %

Temperature Rating	Maximum 40 °C Minimum -15 °C
--------------------	---------------------------------

Technical UL

Output Current, Heavy-	2.1 A
------------------------	-------

Duty Use (UL)

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

