



PRODUCT-DETAILS

ACH580-01-12A7-4

LV AC wall-mounted drive for HVAC, IEC: Pn 5.5 kW, 12.6 A, 400 V, UL: Pld 7.5 Hp, 11.0 A (ACH580-01-12A7-4)



General Information	
Global Commercial Alias	ACH580-01-12A7-4
Product ID	3AXD50000038987
ABB Type Designation	ACH580-01-12A7-4
EAN	6438177459477
Catalog Description	LV AC wall-mounted drive for HVAC, IEC: Pn 5.5 kW, 12.6 A, 400 V, UL: Pld 7.5 Hp, 11.0 A (ACH580-01-12A7-4)
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

Country of Origin	Romania (RO) Finland (FI)
-------------------	------------------------------

	China (CN)
Customs Tariff Number	85044086
HS Code	850440-- Electrical transformers, static converters (for example, rectifiers) and inductors.- Static converters
Invoice Description	ACH580-01-12A7-4 PN: 5.5 kW, IN: 12.6 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	10.141 lb
Product Net Depth / Length	8.78 in
Product Net Height	14.69 in
Product Net Width	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

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	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	12.6 A

Use (I_n)

Output Current, Light-	12.0 A
------------------------	--------

Overload Use (I_{LD})

Output Current, Heavy-	9.4 A
------------------------	-------

Duty Use (I_{HD})

Output Power, Normal	5.5 kW
----------------------	--------

Use (P_n)

Output Power, Light-	5.5 kW
----------------------	--------

Overload Use (P_{LD})

Output Power, Heavy-	4.0 kW
----------------------	--------

Duty Use (P_{HD})

Apparent Power Output	8.7 kV·A
-----------------------	----------

Efficiency Level	IE2
------------------	-----

Standby Loss	14 W
--------------	------

Complete Drive Module
Efficiency (61800-9-2)

Operating Point Frequency / Current	Absolute Loss	Efficiency	Relative Loss
0/25 %	68 W	87.1 %	0.8 %
0/50 %	88 W	91.0 %	1.0 %
0/100 %	157 W	91.9 %	1.8 %
50/25 %	73 W	93.0 %	0.8 %
50/50 %	98 W	95.0 %	1.1 %
50/100 %	178 W	95.4 %	2.0 %
90/50 %	108 W	96.9 %	1.2 %
90/100 %	213 W	96.9 %	2.4 %

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

Technical UL

Output Current, Heavy-Duty Use (UL)	7.6 A
-------------------------------------	-------

Output Current, Light-Overload Use (UL)	11.0 A
---	--------

Output Power, Light-Overload Use (UL)	7.5 Hp
---------------------------------------	--------

External Classifications and Standards

ETIM 8	EC001857 - Frequency converter =< 1 kV
ETIM 9	EC001857 - Frequency converter =< 1 kV
UNSPSC	39122001

Environmental

SCIP	a5c3dd71-8ecd-44d9-98e4-45c53b6836e1 Finland (FI)
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)

Additional Information	
Product Name	Frequency converter

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

