

## PRODUCT-DETAILS

# ACH580-01-02A7-4

LV AC wall-mounted drive for HVAC, IEC: Pn  
0.75 kW, 2.6 A, 400 V, UL: Pld 1.0 Hp, 2.1 A  
(ACH580-01-02A7-4)



## General Information

Global Commercial Alias	ACH580-01-02A7-4
Product ID	3AXD50000038981
ABB Type Designation	ACH580-01-02A7-4
EAN	6438177459415
Catalog Description	LV AC wall-mounted drive for HVAC, IEC: Pn 0.75 kW, 2.6 A, 400 V, UL: Pld 1.0 Hp, 2.1 A (ACH580-01-02A7-4)
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	85044085
Invoice Description	ACH580-01-02A7-4 PN: 0.75 kW, IN: 2.6 A
Made To Order	Yes
Minimum Order Quantity	1 piece

Order Multiple	1 piece
Quote Only	No
Selling Unit of Measure	piece

Container Information

Gross Volume	10.397 dm³
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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

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 ... 63 Hz
Frame Size	R1
Input Voltage (U <sub>in</sub> )	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, Heavy-Duty Use ( $I_{HD}$ )	1.8 A
Output Current, Light-Overload Use ( $I_{LD}$ )	2.5 A
Output Current, Normal Use ( $I_n$ )	2.6 A
Output Power, Heavy-Duty Use ( $P_{HD}$ )	0.6 kW
Output Power, Light-Overload Use ( $P_{LD}$ )	0.75 kW
Output Power, Normal Use ( $P_n$ )	0.75 kW
Apparent Power Output	1.8 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 %	29 W	76.5 %	1.6 %
0/50 %	31 W	85.5 %	1.7 %
0/100 %	36 W	90.5 %	2.0 %
50/25 %	30 W	86.9 %	1.7 %
50/50 %	33 W	92.2 %	1.8 %
50/100 %	39 W	94.8 %	2.2 %
90/50 %	35 W	95.2 %	1.9 %
90/100 %	44 W	96.7 %	2.4 %

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

Product Main Type	ACH580-01
Product Name	Frequency converter

Classifications

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)

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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

