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 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 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

Customs Tariff Number	85044085
HS Code	850440 -- ELECTRICAL MACHINERY AND EQUIPMENT AND PARTS

© 2025 ABB. All rights reserved.

	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	ACH580-01-02A7-4 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

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	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	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

© 2025 ABB. All rights reserved.

	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)	2.6 A
Output Current, Light-Overload Use (I_{LD})	2.5 A
Output Current, Heavy-Duty Use (I_{HD})	1.8 A
Output Power, Normal Use (P_n)	0.75 kW
Output Power, Light-Overload Use (P_{LD})	0.75 kW
Output Power, Heavy-Duty Use (P_{HD})	0.6 kW
	44 W
Apparent Power Output	1.8 kV·A
Efficiency Level	IE2
Standby Loss	14 W

Complete Drive Module Efficiency (IEC61800-9-2)

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

© 2025 ABB. All rights reserved.

Technical UL

Output Current, Heavy-Duty Use (UL)	1.6 A
Output Current, Light-Overload Use (UL)	2.1 A
Output Power, Light-Overload Use (UL)	1 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



© 2025 ABB. All rights reserved.