

PRODUCT-DETAILS

ACH580-01-276A-2

LV AC wall-mounted drive for HVAC, IEC: Pn 75 kW, 276 A, 230 V (ACH580-01-276A-2)



General Information

Global Commercial Alias	ACH580-01-276A-2
Product ID	3AXD50000417780
ABB Type Designation	ACH580-01-276A-2
EAN	6438177591603
Catalog Description	LV AC wall-mounted drive for HVAC, IEC: Pn 75 kW, 276 A, 230 V (ACH580-01-276A-2)
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

Country of Origin	United States (US) Finland (FI)
Customs Tariff Number	85044085
Invoice Description	ACH580-01-276A-2 PN: 75 kW, IN: 276 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	113.774 dm³
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Dimensions

Product Net Weight	69 kg 152.119 lb
Product Net Depth / Length	393.00 mm 15.47 in
Product Net Height	965.00 mm 37.99 in
Product Net Width	300.00 mm 11.81 in
Package Level 1 Depth / Length	1145.00 mm 45.079 in
Package Level 1 Height	630.00 mm 24.803 in
Package Level 1 Width	485.00 mm 19.094 in

Technical

Number of Phases	3
Degree of Protection	IP21
Enclosure Type NEMA	Type1
Altitude	1000 m 95
Sound dB (A)	65 dB(A)
Multiple Battery Information	Lithium Coin, CR2032, 220 mAh, 3 V, 1 pc, 3 g
Frequency (f)	47.5 ... 63 Hz
Frame Size	R8
Input Voltage (U _{in})	200 ... 240 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})	211 A
Output Current, Light-Overload Use (I_{LD})	273 A
Output Current, Normal Use (I_n)	276 A
Output Power, Heavy-Duty Use (P_{HD})	55 kW
Output Power, Light-Overload Use (P_{LD})	75 kW
Output Power, Normal Use (P_n)	75 kW
Apparent Power Output	110 kV·A
Efficiency Level	IE2
Standby Loss	26 W
Complete Drive Module Efficiency (61800-9-2)	

Operating Point Frequency / Current	Absolute Loss	Efficiency	Relative Loss
0/25 %	789 W	88.4 %	0.7 %
0/50 %	1128 W	91.1 %	1.0 %
0/100 %	2160 W	91.3 %	2.0 %
50/25 %	868 W	93.5 %	0.8 %
50/50 %	1283 W	94.9 %	1.2 %
50/100 %	2594 W	94.8 %	2.4 %
90/50 %	1586 W	96.4 %	1.4 %
90/100 %	3571 W	96.0 %	3.2 %

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	c68079d0-d1d5-4fa0-b4a7-6e12fd5d3c68 Finland (FI)
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WEEE Category 4. Large Equipment (Any 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

