



 PRODUCT-DETAILS

ACH580-01-430A-4+B056

LV AC wall-mounted drive for HVAC, IEC: Pn 250 kW, 430 A, 400 V, UL: Pld 350 Hp, 414 A (ACH580-01-430A-4+B056)



General Information

Global Commercial Alias	ACH580-01-430A-4+B056
Product ID	3AUA0000083610
ABB Type Designation	ACH580-01-430A-4+B056
EAN	6438177306412
Catalog Description	LV AC wall-mounted drive for HVAC, IEC: Pn 250 kW, 430 A, 400 V, UL: Pld 350 Hp, 414 A (ACH580-01-430A-4+B056)

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>
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Ordering

Customs Tariff Number	85044086
HS Code	850440 -- ELECTRICAL MACHINERY AND EQUIPMENT AND PARTS 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	ACH580-01-430A-4+B056 PN: 250 kW, IN: 430 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	103 kg 227.076 lb
Product Net Depth / Length	477.00 mm 18.780 in
Product Net Height	955.00 mm 37.598 in
Product Net Width	380.00 mm 14.961 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
Package Level 1 Units	1 case

Technical

Number of Phases	3-phase
Degree of Protection	IP55
Enclosure Type NEMA	Type 12
Multiple Battery Information	95 Lithium Coin, CR2032, 220 mAh, 3 V, 1 pc, 3 g
Frequency (f)	47.5 ... 63 Hz
Frame Size	R9
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	With control unit Without optical interface With PC connection
Analog Inputs	2
Analog Outputs	2
Number of Digital In/Outputs	6/3
Output Current, Normal	430 A

Use (I_n)

Output Current, Light-Overload Use (I_{LD})	400 A
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Output Current, Heavy-Duty Use (I_{HD})	363 A
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Output Power, Normal Use (P_n)	250 kW
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Output Power, Light-Overload Use (P_{LD})	200 kW
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Output Power, Heavy-Duty Use (P_{HD})	200 kW
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Apparent Power Output	6072 W
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Efficiency Level	298 kV·A
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Standby Loss	IE2
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Complete Drive Module Efficiency (IEC61800-9-2)	80 W
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Operating Point Frequency / Current	Absolute Loss	Efficiency	Relative Loss
0/25 %	1471 W	91.5 %	0.5 %
0/50 %	2121 W	93.6 %	0.7 %
0/100 %	4032 W	93.9 %	1.4 %
50/25 %	1615 W	95.4 %	0.5 %
50/50 %	2393 W	96.5 %	0.8 %
50/100 %	4676 W	96.5 %	1.6 %
90/50 %	2821 W	97.6 %	0.9 %
90/100 %	6072 W	97.5 %	2.0 %

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

Output Current, Heavy-Duty Use (UL)	361 A
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Output Current, Light-Overload Use (UL)	414 A
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Output Power, Light-Overload Use (UL)	350 Hp
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Certificates and Declarations

Declaration of Conformity - CE	3AXD10001818627
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REACH Date	20250905
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REACH Declaration	9AKK107992A7060
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REACH Information	True - contains substances > 0.1 mass percentage
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RoHS Date	20240508
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RoHS Declaration	3AXD10001818627
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RoHS Information	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
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Environmental

SCIP	d18b6fc2-582d-43fe-991a-760f8051bde1 Finland
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WEEE Category	4. Large Equipment (Any External Dimension More Than 50 cm)
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External Classifications and Standards

ETIM 9

EC001857 - Frequency converter =< 1 kV

UNSPSC

39122001

Categories

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

