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 PRODUCT-DETAILS

## ACH580-01-430A-4

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)




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**General Information**

Global Commercial Alias	ACH580-01-430A-4
Product ID	3AUA0000080535
ABB Type Designation	ACH580-01-430A-4
EAN	6438177305910

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)
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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**

Country of Origin	Finland (FI)
Customs Tariff Number	85044086

HS Code	850440-- Electrical transformers, static converters (for example, rectifiers) and inductors.- Static converters
Invoice Description	ACH580-01-430A-4 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	213.849 lb
Product Net Depth / Length	16.457 in
Product Net Height	37.598 in
Product Net Width	14.961 in
Package Level 1 Depth / Length	1145 mm
Package Level 1 Height	630 mm
Package Level 1 Width	485 mm
Package Level 1 Units	1 box

## Technical

Number of Phases	3
Degree of Protection	IP21
Enclosure Type NEMA	Type1
Altitude	1000 m
	95
Sound dB (A)	68 dB(A)
Multiple Battery Information	Lithium Coin, CR2032, 220 mAh, 3 V, 1 pc, 3 g
Frequency (f)	47.5 ... 63 Hz
Frame Size	R9
Input Voltage (U <sub>in</sub> )	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	430 A
Use (I <sub>n</sub> )	
Output Current, Light-	400 A

Overload Use ( $I_{LD}$ )	
Output Current, Heavy-Duty Use ( $I_{HD}$ )	363 A
Output Power, Normal Use ( $P_n$ )	250 kW
Output Power, Light-Overload Use ( $P_{LD}$ )	200 kW
Output Power, Heavy-Duty Use ( $P_{HD}$ )	200 kW
Apparent Power Output	298 kV-A
Efficiency Level	IE2
Standby Loss	80 W
Complete Drive Module Efficiency (61800-9-2)	

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
Output Current, Light-Overload Use (UL)	414 A
Output Power, Light-Overload Use (UL)	350 Hp

## External Classifications and Standards

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

## Environmental

SCIP	67c5daab-da3d-4123-804b-53a83b6d9528 Finland (FI)
WEEE Category	4. Large Equipment (Any External Dimension More Than 50 cm)

## Additional Information

Product Name	Frequency converter
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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

