

PRODUCT-DETAILS

ACH580-01-206A-4

LV AC wall-mounted drive for HVAC, IEC: Pn 110 kW, 206 A, 400 V, UL: Pld 150 Hp, 180 A (ACH580-01-206A-4)



General Information

Global Commercial Alias	ACH580-01-206A-4
Product ID	3AUA0000080531
ABB Type Designation	ACH580-01-206A-4
EAN	6438177305873
Catalog Description	LV AC wall-mounted drive for HVAC, IEC: Pn 110 kW, 206 A, 400 V, UL: Pld 150 Hp, 180 A (ACH580-01-206A-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	Finland (FI)
Customs Tariff Number	85044086
Invoice Description	ACH580-01-206A-4 PN: 110 kW, IN: 206 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	92.47 dm³
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Dimensions

Product Net Weight	54 kg 119.050 lb
Product Net Depth / Length	370.00 mm 14.57 in
Product Net Height	880.00 mm 34.65 in
Product Net Width	284.00 mm 11.18 in
Package Level 1 Depth / Length	992.00 mm 39.055 in
Package Level 1 Height	568.00 mm 22.362 in
Package Level 1 Width	400.00 mm 15.748 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)	67 dB(A)
Multiple Battery Information	Lithium Coin, CR2032, 220 mAh, 3 V, 1 pc, 3 g
Frequency (f)	47 ... 63 Hz
Frame Size	R7
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	Control unit PC connection
Analog Inputs	2
Analog Outputs	2
Number of Digital In/Outputs	6/3
Output Current, Heavy-Duty Use (I_{HD})	169 A
Output Current, Light-Overload Use (I_{LD})	196 A
Output Current, Normal Use (I_n)	206 A
Output Power, Heavy-Duty Use (P_{HD})	90 kW
Output Power, Light-Overload Use (P_{LD})	110 kW
Output Power, Normal Use (P_n)	110 kW
Apparent Power Output	143 kV-A
Efficiency Level	IE2
Standby Loss	36 W
Complete Drive Module Efficiency (61800-9-2)	

Operating Point Frequency / Current	Absolute Loss	Efficiency	Relative Loss
0/25 %	722 W	91.5 %	0.5 %
0/50 %	1001 W	93.7 %	0.7 %
0/100 %	1797 W	94.2 %	1.3 %
50/25 %	793 W	95.3 %	0.6 %
50/50 %	1138 W	96.5 %	0.8 %
50/100 %	2116 W	96.7 %	1.5 %
90/50 %	1345 W	97.6 %	0.9 %
90/100 %	2785 W	97.5 %	2.0 %

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	71e4e108-7fa3-4fef-ae88-63d19649578b 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

