

PRODUCT-DETAILS

ACH580-01-046A-4

ACH580-01-046A-4 PN: 22 kW, IN: 45 A



General Information

Global Commercial Alias	ACH580-01-046A-4
Product ID	3AXD50000038997
ABB Type Designation	ACH580-01-046A-4
EAN	6438177459521
Catalog Description	ACH580-01-046A-4 PN: 22 kW, IN: 45 A

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	Romania (RO) Finland (FI) China (CN)
Customs Tariff Number	85044086
Invoice Description	ACH580-01-046A-4 PN: 22 kW, IN: 45 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	22.779 dm ³
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Dimensions

Product Net Weight	11.8 kg 26.015 lb
Product Net Depth / Length	229 mm 9.02 in
Product Net Height	490 mm 19.29 in
Product Net Width	203 mm 7.99 in
Package Level 1 Depth / Length	295.00 mm 11.614 in
Package Level 1 Height	390.00 mm 15.354 in
Package Level 1 Width	600.00 mm 23.622 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)	76 dB(A)
Multiple Battery Information	Lithium Coin, CR2032, 220 mAh, 3 V, 1 pc, 3 g
Frequency (f)	47 ... 63 Hz
Frame Size	R3
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})	37.7 A
Output Current, Light-	42.8 A

Overload Use (I_{LD})	
Output Current, Normal Use (I_n)	45 A
Output Power, Heavy-Duty Use (P_{HD})	18.5 kW
Output Power, Light-Overload Use (P_{LD})	22.0 kW
Output Power, Normal Use (P_n)	22 kW
Apparent Power Output	31 kV·A
Efficiency Level	IE2
Standby Loss	16 W
Complete Drive Module Efficiency (61800-9-2)	

Operating Point Frequency / Current	Absolute Loss	Efficiency	Relative Loss
0/25 %	200 W	89.2 %	0.6 %
0/50 %	260 W	92.5 %	0.8 %
0/100 %	459 W	93.3 %	1.5 %
50/25 %	216 W	94.1 %	0.7 %
50/50 %	290 W	95.8 %	0.9 %
50/100 %	534 W	96.1 %	1.7 %
90/50 %	328 W	97.3 %	1.1 %
90/100 %	672 W	97.3 %	2.2 %

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 7	EC001857 - Frequency converter =< 1 kV
UNSPSC	39122001

Environmental

SCIP	8e1cd225-4cd2-4db1-8a7b-419a51ce1ae3 Finland (FI)
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

