

PRODUCT-DETAILS

ACH580-01-039A-4

ACH580-01-039A-4 PN: 18.5 kW, IN: 38 A



General Information

Global Commercial Alias	ACH580-01-039A-4
Product ID	3AXD50000038996
ABB Type Designation	ACH580-01-039A-4
EAN	6438177459514
Catalog Description	ACH580-01-039A-4 PN: 18.5 kW, IN: 38 A
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	Romania (RO) Finland (FI) China (CN)
Customs Tariff Number	85044086
Invoice Description	ACH580-01-039A-4 PN: 18.5 kW, IN: 38 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})	31.6 A
Output Current, Light-Overload Use (I_{LD})	36.1 A
Output Current, Normal Use (I_n)	38 A
Output Power, Heavy-Duty Use (P_{HD})	15.0 kW
Output Power, Light-Overload Use (P_{LD})	18.5 kW
Output Power, Normal Use (P_n)	18.5 kW
Apparent Power Output	26 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 %	167 W	89.3 %	0.6 %
0/50 %	213 W	92.7 %	0.8 %
0/100 %	365 W	93.6 %	1.4 %
50/25 %	180 W	94.2 %	0.7 %
50/50 %	238 W	95.9 %	0.9 %
50/100 %	420 W	96.4 %	1.6 %
90/50 %	266 W	97.4 %	1.0 %
90/100 %	523 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 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

