



PRODUCT-DETAILS

ACH580-01-039A-4

LV AC wall-mounted drive for HVAC, IEC: Pn 18.5 kW, 38 A, 400 V, UL: Pld 25 Hp, 34.0 A (ACH580-01-039A-4)



General Information	
Global Commercial Alias	ACH580-01-039A-4
Product ID	3AXD50000038996
ABB Type Designation	ACH580-01-039A-4
EAN	6438177459514
Catalog Description	LV AC wall-mounted drive for HVAC, IEC: Pn 18.5 kW, 38 A, 400 V, UL: Pld 25 Hp, 34.0 A (ACH580-01-039A-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	Romania (RO) Finland (FI) China (CN)
Customs Tariff Number	85044086

HS Code	850440-- Electrical transformers, static converters (for example, rectifiers) and inductors.- Static converters
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

Dimensions

Product Net Weight	26.015 lb
Product Net Depth / Length	9.02 in
Product Net Height	19.29 in
Product Net Width	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)	47.5 ... 63 Hz
Frame Size	R3
Input Voltage (U _{in})	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 Use (I _N)	38 A
Output Current, Light-Overload Use (I _{LD})	36.1 A
Output Current, Heavy-Duty Use (I _{HD})	31.6 A

Output Power, Normal Use (P_n)	18.5 kW
Output Power, Light-Overload Use (P_{LD})	18.5 kW
Output Power, Heavy-Duty Use (P_{HD})	15.0 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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Technical UL

Output Current, Heavy-Duty Use (UL)	27.0 A
Output Current, Light-Overload Use (UL)	34.0 A
Output Power, Light-Overload Use (UL)	25 Hp

External Classifications and Standards

ETIM 8	EC001857 - Frequency converter =< 1 kV
ETIM 9	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)

Additional Information

Product Name	Frequency converter
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Categories

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

