

PRODUCT-DETAILS

ACH580-01-089A-4

LV AC wall-mounted drive for HVAC, IEC: Pn 45 kW, 89 A, 400 V (ACH580-01-089A-4)



General Information

Global Commercial Alias	ACH580-01-089A-4
Product ID	3AXD50001063122
ABB Type Designation	ACH580-01-089A-4
EAN	6438177709008
Catalog Description	LV AC wall-mounted drive for HVAC, IEC: Pn 45 kW, 89 A, 400 V (ACH580-01-089A-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	850440
Invoice Description	ACH580-01-089A-4 PN: 45 kW, IN: 89 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	33.181 dm ³
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Dimensions

Product Net Weight	22 kg 48.502 lb
Product Net Depth / Length	257 mm 10.118 in
Product Net Height	636 mm 25.039 in
Product Net Width	203 mm 7.99 in
Package Level 1 Depth / Length	794 mm 31.260 in
Package Level 1 Height	358 mm 14.094 in
Package Level 1 Width	278 mm 10.945 in

Technical

Number of Phases	3
Degree of Protection	IP21
Enclosure Type NEMA	Type1
Multiple Battery Information	Lithium Coin, CR2032, 220 mAh, 3 V, 1 pc, 3 g
Frequency (f)	47.5 ... 63 Hz
Frame Size	R4
Input Voltage (U _{in})	380 ... 480 V
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})	72 A

Output Current, Light-Overload Use (I_{LD})	83 A
Output Current, Normal Use (I_n)	89 A
Output Power, Heavy-Duty Use (P_{HD})	37 kW
Output Power, Light-Overload Use (P_{LD})	45 kW
Output Power, Normal Use (P_n)	45 kW
Apparent Power Output	62 kV-A
Efficiency Level	IE2
Standby Loss	21 W
Complete Drive Module Efficiency (61800-9-2)	

Operating Point Frequency / Current	Absolute Loss	Efficiency	Relative Loss
0/25 %	292 W	92.0 %	0.5 %
0/50 %	413 W	94.0 %	0.7 %
0/100 %	783 W	94.2 %	1.3 %
50/25 %	319 W	95.6 %	0.5 %
50/50 %	468 W	96.6 %	0.8 %
50/100 %	901 W	96.7 %	1.5 %
90/50 %	518 W	97.9 %	0.8 %
90/100 %	1059 W	97.8 %	1.7 %

Temperature Rating	Maximum 40 °C
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Additional Information

Product Main Type	ACH580-01
Product Name	Frequency converter

Classifications

ETIM 7	EC001857 - Frequency converter =< 1 kV
ETIM 8	EC001857 - Frequency converter =< 1 kV

Categories

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

