

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	<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	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
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## Container Information

Gross Volume	33.181 dm <sup>3</sup>
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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 <sub>in</sub> )	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 <sub>HD</sub> )	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

## 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

