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 PRODUCT-DETAILS

## ACH580-01-089A-4+B056

LV AC wall-mounted drive for HVAC, IEC: Pn 45 kW, 89 A, 400 V (ACH580-01-089A-4+B056)




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**General Information**

Global Commercial Alias	ACH580-01-089A-4+B056
Product ID	3AXD50001063139
ABB Type Designation	ACH580-01-089A-4+B056
EAN	6438177708995
Catalog Description	LV AC wall-mounted drive for HVAC, IEC: Pn 45 kW, 89 A, 400 V (ACH580-01-089A-4+B056)
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>

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**Ordering**

Country of Origin	Finland (FI)
Customs Tariff Number	850440

HS Code	850440-- Electrical transformers, static converters (for example, rectifiers) and inductors.- Static converters
Invoice Description	ACH580-01-089A-4+B056 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

**Dimensions**

Product Net Weight	23 kg 50.706 lb
Product Net Depth / Length	265.00 mm 10.433 in
Product Net Height	636 mm 25.039 in
Product Net Width	203.00 mm 7.992 in
Package Level 1 Depth / Length	31 in
Package Level 1 Height	14 in
Package Level 1 Width	11 in
Package Level 1 Units	1 carton

**Technical**

Number of Phases	3
Degree of Protection	IP55
Enclosure Type NEMA	Type12
Altitude	4000 m
Sound dB (A)	70 dB(A)
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, Normal Use ( $I_n$ )	89 A
Output Power, Normal Use ( $P_n$ )	45 kW
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 %

### Classifications

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

### Environmental

WEEE Category	4. Large Equipment (Any External Dimension More Than 50 cm)
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### 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

