

## PRODUCT-DETAILS

# ACH580-01-089A-2+B056

LV AC wall-mounted drive for HVAC, IEC: Pn 22 kW, 89 A, 230 V (ACH580-01-089A-2+B056)



### General Information

Global Commercial Alias	ACH580-01-089A-2+B056
Product ID	3AXD50000417889
ABB Type Designation	ACH580-01-089A-2+B056
EAN	6438177591702
Catalog Description	LV AC wall-mounted drive for HVAC, IEC: Pn 22 kW, 89 A, 230 V (ACH580-01-089A-2+B056)

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.
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### Ordering

Country of Origin	Finland (FI)
Customs Tariff Number	850440
Invoice Description	ACH580-01-089A-2+B056 PN: 22 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 47.551 dm³

Dimensions

Product Net Weight	29 kg 63.934 lb
Product Net Depth / Length	320 mm 12.598 in
Product Net Height	732.00 mm 28.819 in
Product Net Width	203.00 mm 7.992 in
Package Level 1 Depth / Length	835.00 mm 32.874 in
Package Level 1 Height	521.00 mm 20.512 in
Package Level 1 Width	295.00 mm 11.614 in

Technical

Number of Phases	3
Degree of Protection	IP55
Enclosure Type NEMA	Type12
	95
Multiple Battery Information	Lithium Coin, CR2032, 220 mAh, 3 V, 1 pc, 3 g
Frequency (f)	47.5 ... 63 Hz
Frame Size	R5
Input Voltage (U <sub>in</sub> )	200 ... 240 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> )	75 A
Output Current, Light-	88 A

Overload Use ( $I_{LD}$ )	
Output Current, Normal Use ( $I_n$ )	89 A
Output Power, Heavy-Duty Use ( $P_{HD}$ )	18.5 kW
Output Power, Light-Overload Use ( $P_{LD}$ )	22.0 kW
Output Power, Normal Use ( $P_n$ )	22 kW
Apparent Power Output	35 kV·A
Efficiency Level	IE2
Standby Loss	19 W
Complete Drive Module Efficiency (61800-9-2)	

Operating Point Frequency / Current	Absolute Loss	Efficiency	Relative Loss
0/25 %	247 W	88.4 %	0.7 %
0/50 %	326 W	91.8 %	0.9 %
0/100 %	575 W	92.6 %	1.6 %
50/25 %	268 W	93.6 %	0.8 %
50/50 %	366 W	95.4 %	1.0 %
50/100 %	680 W	95.7 %	1.9 %
90/50 %	429 W	96.9 %	1.2 %
90/100 %	876 W	96.9 %	2.5 %

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 8	EC001857 - Frequency converter =< 1 kV
ETIM 9	EC001857 - Frequency converter =< 1 kV
UNSPSC	39122001

Environmental

SCIP	567c5ced-c536-4a8b-933d-885c159a15d8 Finland (FI)
WEEE Category	4. Large Equipment (Any External Dimension More Than 50 cm)

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## Categories

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

