

## PRODUCT-DETAILS

# ACH580-01-032A-2+B056

LV AC wall-mounted drive for HVAC, IEC: Pn 7.5 kW, 31.2 A, 230 V (ACH580-01-032A-2+B056)



## General Information

Global Commercial Alias	ACH580-01-032A-2+B056
Product ID	3AXD50000417858
ABB Type Designation	ACH580-01-032A-2+B056
EAN	6438177591672
Catalog Description	LV AC wall-mounted drive for HVAC, IEC: Pn 7.5 kW, 31.2 A, 230 V (ACH580-01-032A-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.

## Ordering

Country of Origin	Finland (FI)
Customs Tariff Number	850440
Invoice Description	ACH580-01-032A-2+B056 PN: 7.5 kW, IN: 31 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

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Gross Volume	15,388 dm³
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## Dimensions

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Product Net Weight	6.8 kg 14.991 lb
Product Net Depth / Length	239 mm 9.409 in
Product Net Height	503 mm 19.803 in
Product Net Width	128 mm 5.039 in
Package Level 1 Depth / Length	225.00 mm 8.858 in
Package Level 1 Height	370.00 mm 14.567 in
Package Level 1 Width	621.00 mm 24.449 in

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## Technical

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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	R2
Input Voltage ( $U_{in}$ )	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	With control unit Without optical interface With PC connection
Analog Inputs	2
Analog Outputs	2
Number of Digital In/Outputs	6 / 3
Output Current, Heavy-Duty Use ( $I_{HD}$ )	24.2 A
Output Current, Light-	30.8 A

Overload Use ( $I_{LD}$ )	
Output Current, Normal Use ( $I_n$ )	31.2 A
Output Power, Heavy-Duty Use ( $P_{HD}$ )	5.5 kW
Output Power, Light-Overload Use ( $P_{LD}$ )	7.5 kW
Output Power, Normal Use ( $P_n$ )	7.5 kW
Apparent Power Output	12 kV·A
Efficiency Level	IE2
Standby Loss	14 W
Complete Drive Module Efficiency (61800-9-2)	

Operating Point Frequency / Current	Absolute Loss	Efficiency	Relative Loss
0/25 %	101 W	86.7 %	0.8 %
0/50 %	131 W	90.6 %	1.1 %
0/100 %	234 W	91.5 %	1.9 %
50/25 %	110 W	92.6 %	0.9 %
50/50 %	151 W	94.6 %	1.2 %
50/100 %	279 W	95.0 %	2.2 %
90/50 %	178 W	96.4 %	1.4 %
90/100 %	359 W	96.4 %	2.9 %

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	cf2353ee-9777-4c0e-a5fb-5527ed389255 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

