

PRODUCT-DETAILS

ACH580-01-088A-4+B056

LV AC wall-mounted drive for HVAC, IEC: Pn 45 kW, 88 A, 400 V, UL: Pld 60 Hp, 77 A (ACH580-01-088A-4+B056)



General Information

Global Commercial Alias	ACH580-01-088A-4+B056
Product ID	3AUA0000083602
ABB Type Designation	ACH580-01-088A-4+B056
EAN	6438177306337
Catalog Description	LV AC wall-mounted drive for HVAC, IEC: Pn 45 kW, 88 A, 400 V, UL: Pld 60 Hp, 77 A (ACH580-01-088A-4+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	85044086
Invoice Description	ACH580-01-088A-4+B056 PN: 45 kW, IN: 88 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 66,454 dm³

Dimensions

Product Net Weight	29 kg 63.934 lb
Product Net Depth / Length	320.00 mm 12.598 in
Product Net Height	1023 mm 40.276 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
Package Level 1 Units	1 carton

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 _{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	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})	72 A

Output Current, Light-Overload Use (I_{LD})	83 A
Output Current, Normal Use (I_n)	88 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	61 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 %	294 W	91.9 %	0.5 %
0/50 %	402 W	94.1 %	0.7 %
0/100 %	767 W	94.3 %	1.3 %
50/25 %	325 W	95.5 %	0.5 %
50/50 %	469 W	96.6 %	0.8 %
50/100 %	915 W	96.6 %	1.5 %
90/50 %	545 W	97.8 %	0.9 %
90/100 %	1139 W	97.6 %	1.9 %

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	28daf65e-92a8-4810-9f9f-8a94b5b77014 Finland (FI)
WEEE Category	4. Large Equipment (Any External Dimension More Than 50 cm)

Categories

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

