

PRODUCT-DETAILS

ACH580-01-115A-2

LV AC wall-mounted drive for HVAC, IEC: Pn 30 kW, 115 A, 230 V (ACH580-01-115A-2)



General Information

Global Commercial Alias	ACH580-01-115A-2
Product ID	3AXD50000417742
ABB Type Designation	ACH580-01-115A-2
EAN	6438177591566
Catalog Description	LV AC wall-mounted drive for HVAC, IEC: Pn 30 kW, 115 A, 230 V (ACH580-01-115A-2)
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	United States (US) Finland (FI)
Customs Tariff Number	85044085
Invoice Description	ACH580-01-115A-2 PN: 30 kW, IN: 115 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	43.836 dm³
--------------	------------

Dimensions

Product Net Weight	28.3 kg 62.391 lb
Product Net Depth / Length	295.00 mm 11.61 in
Product Net Height	732.00 mm 28.82 in
Product Net Width	203.00 mm 7.99 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	IP21
Enclosure Type NEMA	Type1
Altitude	1000 m 95
Sound dB (A)	63 dB(A)
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})	200 ... 240 V
Mounting Type	Wall-mounted
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_{HD})	88 A
Output Current, Light- Overload Use (I_{LD})	114 A
Output Current, Normal Use (I_n)	115 A
Output Power, Heavy- Duty Use (P_{HD})	22.0 kW
Output Power, Light- Overload Use (P_{LD})	30 kW
Output Power, Normal Use (P_n)	30 kW
Apparent Power Output	46 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 %	321 W	88.3 %	0.7 %
0/50 %	437 W	91.5 %	1.0 %
0/100 %	814 W	92.0 %	1.8 %
50/25 %	352 W	93.5 %	0.8 %
50/50 %	496 W	95.2 %	1.1 %
50/100 %	977 W	95.2 %	2.1 %
90/50 %	590 W	96.8 %	1.3 %
90/100 %	1285 W	96.5 %	2.8 %

Temperature Rating	Maximum 40 °C Minimum -15 °C
--------------------	---------------------------------

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	78feb6f4-2343-45e6-a509-fef3119deda6 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

