



 PRODUCT-DETAILS

ACH580-01-293A-4

LV AC wall-mounted drive for HVAC, IEC: Pn 160 kW, 293 A, 400 V, UL: Pld 200 Hp, 260 A (ACH580-01-293A-4)



General Information

Global Commercial Alias	ACH580-01-293A-4
Product ID	3AUA0000080533
ABB Type Designation	ACH580-01-293A-4
EAN	6438177305897

Catalog Description	LV AC wall-mounted drive for HVAC, IEC: Pn 160 kW, 293 A, 400 V, UL: Pld 200 Hp, 260 A (ACH580-01-293A-4)
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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	85044086

HS Code	850440-- Electrical transformers, static converters (for example, rectifiers) and inductors.- Static converters
Invoice Description	ACH580-01-293A-4 PN: 160 kW, IN: 293 A
Made To Order	No
Minimum Order Quantity	1 piece
Order Multiple	1 piece
Quote Only	No
Selling Unit of Measure	piece

Dimensions

Product Net Weight	152.119 lb
Product Net Depth / Length	15.47 in
Product Net Height	37.99 in
Product Net Width	11.81 in
Package Level 1 Depth / Length	1145.00 mm 45.079 in
Package Level 1 Height	630.00 mm 24.803 in
Package Level 1 Width	485.00 mm 19.094 in
Package Level 1 Units	1 carton

Technical

Number of Phases	3
Degree of Protection	IP21
Enclosure Type NEMA	Type1
Altitude	1000 m 95
Sound dB (A)	65 dB(A)
Multiple Battery Information	Lithium Coin, CR2032, 220 mAh, 3 V, 1 pc, 3 g
Frequency (f)	47.5 ... 63 Hz
Frame Size	R8
Input Voltage (U _{in})	380 ... 480 V
Mounting Type	Wall-mounted
Communication Protocol	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	PC connection
Analog Inputs	2
Analog Outputs	2
Number of Digital In/Outputs	6/3
Output Current, Normal Use (I _n)	293 A
Output Current, Light-	278 A

Overload Use (I_{LD})	
Output Current, Heavy-Duty Use (I_{HD})	246 A
Output Power, Normal Use (P_n)	160 kW
Output Power, Light-Overload Use (P_{LD})	160 kW
Output Power, Heavy-Duty Use (P_{HD})	132 kW
Apparent Power Output	203 kV-A
Efficiency Level	IE2
Standby Loss	47 W
Complete Drive Module Efficiency (61800-9-2)	

Operating Point Frequency / Current	Absolute Loss	Efficiency	Relative Loss
0/25 %	981 W	91.8 %	0.5 %
0/50 %	1382 W	93.9 %	0.7 %
0/100 %	2541 W	94.3 %	1.3 %
50/25 %	1088 W	95.5 %	0.5 %
50/50 %	1582 W	96.5 %	0.8 %
50/100 %	3032 W	96.6 %	1.5 %
90/50 %	1907 W	97.7 %	0.9 %
90/100 %	4071 W	97.5 %	2.0 %

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

Output Current, Heavy-Duty Use (UL)	240 A
Output Current, Light-Overload Use (UL)	260 A
Output Power, Light-Overload Use (UL)	200 Hp

External Classifications and Standards

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

Environmental

SCIP	392bf175-c6df-4719-8b82-cdb09cfcad61 Finland (FI)
WEEE Category	4. Large Equipment (Any External Dimension More Than 50 cm)

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

