

PRODUCT-DETAILS

# ACH580-01-044A-4

## LV AC wall-mounted drive for HVAC, UL: Pld 30 Hp, 44 A, 460 V (ACH580-01-044A-4)



General Information	
Global Commercial Alias	ACH580-01-044A-4
Product ID	3AUA0000222381
ABB Type Designation	ACH580-01-044A-4
EAN	6438177507642
Catalog Description	LV AC wall-mounted drive for HVAC, UL: Pld 30 Hp, 44 A, 460 V (ACH580-01-044A-4)
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	United States (US)
Customs Tariff Number	85044080
Invoice Description	ACH580-01-044A-4, Pld 30HP, I2LD 44A
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	26 lb
Product Net Depth / Length	9.01 in
Product Net Height	19.29 in
Product Net Width	7.99 in
Package Level 1 Units	1 carton

Technical

Number of Phases	3
Degree of Protection	IP21
Enclosure Type NEMA	Type1
Frequency (f)	50/60 Hz
Frame Size	R3
Input Voltage (U <sub>in</sub> )	440 ... 480 V
Mounting Type	Wall-mounting
Apparent Power Output	37 kV·A
Efficiency Level	IE2
Standby Loss	17 W

Complete Drive Module  
Efficiency (61800-9-2)

Operating Point Frequency / Current	Absolute Loss	Relative Loss	Efficiency
0 / 25 %	199 W	0.5 %	90.7 %
0 / 50 %	257 W	0.7 %	93.6 %
0 / 100 %	453 W	1.2 %	94.3 %
50 / 25 %	214 W	0.6 %	95.0 %
50 / 50 %	286 W	0.8 %	96.5 %
50 / 100 %	526 W	1.4 %	96.7 %
90 / 50 %	321 W	0.9 %	97.8 %
90 / 100 %	656 W	1.8 %	97.7 %

Temperature Rating	Maximum 40 °C
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Additional Information

Product Name	AC Drive
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Classifications

UNSPSC	39122001
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Environmental	
WEEE Category	5. Small Equipment (No 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

