



PRODUCT-DETAILS

ACH580-01-027A-4

LV AC wall-mounted drive for HVAC, UL: Pld 20 Hp, 27 A, 460 V (ACH580-01-027A-4)



General Information	
Global Commercial Alias	ACH580-01-027A-4
Product ID	3AUA0000222379
ABB Type Designation	ACH580-01-027A-4
EAN	6438177507628
Catalog Description	LV AC wall-mounted drive for HVAC, UL: Pld 20 Hp, 27 A, 460 V (ACH580-01-027A-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	
Customs Tariff Number	85044080
HS Code	850440 -- ELECTRICAL MACHINERY AND EQUIPMENT AND PARTS THEREOF; SOUND RECORDERS AND REPRODUCERS, TELEVISION IMAGE

AND SOUND RECORDERS AND REPRODUCERS, AND PARTS AND ACCESSORIES OF SUCH ARTICLES;Electrical transformers, static converters (for example, rectifiers) and inductors;Static converters

Invoice Description	ACH580-01-027A-4, PLd 20HP, I2LD 27A
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-phase
Degree of Protection	IP21
Enclosure Type NEMA	Type1
Frequency (f)	50/60 Hz
Frame Size	R3
Input Voltage (U _{in})	440 ... 480 V
Mounting Type	Wall-mounted
Apparent Power Output	22 kV·A
Efficiency Level	IE2
Standby Loss	17 W
Complete Drive Module Efficiency (IEC61800-9-2)	

Operating Point Frequency / Current	Absolute Loss	Relative Loss	Efficiency
0 / 25 %	137 W	0.6 %	89.6 %
0 / 50 %	171 W	0.8 %	93.1 %
0 / 100 %	282 W	1.3 %	94.2 %
50 / 25 %	147 W	0.7 %	94.4 %
50 / 50 %	188 W	0.8 %	96.2 %
50 / 100 %	322 W	1.4 %	96.7 %
90 / 50 %	205 W	0.9 %	97.7 %
90 / 100 %	386 W	1.7 %	97.8 %

Temperature Rating	Maximum 40 °C
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Technical UL

Output Current, Light-Overload Use (UL)	27 A
Output Power, Light-Overload Use (UL)	20 Hp

Environmental	
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)

External Classifications and Standards	
UNSPSC	39122001

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

