



PRODUCT-DETAILS

# ACS580-01-027A-4

LV AC general purpose wall-mounted drive,  
 UL: Pld 20 Hp, 27 A, 500 V (ACS580-01-027A-4)



## General Information

Global Commercial Alias	ACS580-01-027A-4
Product ID	3AUA0000204813
ABB Type Designation	ACS580-01-027A-4
EAN	6438177450726

Catalog Description LV AC general purpose wall-mounted drive, UL: Pld 20 Hp, 27 A, 500 V (ACS580-01-027A-4)

Long Description

The wall-mounted ACS580-01 is available as UL Type 1 (IP21), Type 12 (IP55) and Type 4X (IP66) designed for OEM and end users who value high quality and robustness in their applications. Coated control boards, high enclosure classes, and motor temperature monitoring ensure processes will run smoothly even in harsh conditions. This drive is part of ABB's all-compatible drives portfolio, sharing the same control panel, PC tools, parameter structure and communications options as the ACS380/180 and ACS880. Learn it once; use it everywhere. With both V/Hz and sensorless vector control supporting most motor types such as induction, permanent magnet, synchronous reluctance, and optimum pole motors the ACS580 is ideal for use on compressors, conveyors, pumps, extruders, centrifuges, mixers, fans and other variable and constant torque applications, in a variety of industries, including food and beverage, plastic, textile, material handling, and agriculture.

## 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	ACS580-01-027A-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 <sub>in</sub> )	380 ... 500 V
Mounting Type	Wall-mounting
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, Heavy-Duty Use (UL)	21 A
Output Current, Light-	27 A

Overload Use (UL)	
Output Power, Heavy-Duty Use (UL)	15 Hp
Output Power, Light-Overload Use (UL)	20 Hp

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### Environmental

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WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)
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### External Classifications and Standards

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UNSPSC	39122001
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### Categories

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Drives → Low Voltage AC Drives → General Purpose Drives → ACS580-01 - Wall-mounted drive

