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 PRODUCT-DETAILS

# ACS580-01-430A-4

## LV AC general purpose wall-mounted drive, IEC: Pn 250 kW, 430 A, 400 V (ACS580-01-430A-4)




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**General Information**

Global Commercial Alias	ACS580-01-430A-4
Product ID	3AUA0000080510
ABB Type Designation	ACS580-01-430A-4
EAN	6438177305668
Catalog Description	LV AC general purpose wall-mounted drive, IEC: Pn 250 kW, 430 A, 400 V (ACS580-01-430A-4)

Long Description	<p>The ACS580-01 is plug-in ready to control your compressors, conveyors, pumps, extruders, centrifuges, mixers, fans and many other variable and constant torque applications, in a variety of light industries, including food and beverage, plastic, textile, material handling, and agriculture. All essential features are built-in as standard, simplifying drive selection, and making additional hardware unnecessary. Versatile and straightforward settings menu and assistants enable fast setup, commissioning, use and maintenance, while rugged and robust design makes it a good fit for various environments. With the ACS580 drives you can easily take full control of your processes to comprehensively manage your plant. The wall-mounted ACS580-01 comes in IP21 enclosure as standard. Also, IP55 and flange mounting units are available.</p>
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**Ordering**

Customs Tariff Number	85044086
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	ACS580-01-430A-4 PN: 250 kW, IN: 430 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	97 kg 213.849 lb
Product Net Depth / Length	418 mm 16.457 in
Product Net Height	955 mm 37.598 in
Product Net Width	380 mm 14.961 in
Package Level 1 Depth / Length	1145 mm 45.079 in
Package Level 1 Height	654 mm 25.75 in
Package Level 1 Width	485 mm 19.094 in
Package Level 1 Units	1 case

## Technical

Number of Phases	3-phase
Degree of Protection	IP21
Enclosure Type NEMA	Type1
Altitude	1000 m 5 ... 95
Sound dB (A)	68 dB(A)
Multiple Battery Information	Lithium Coin, CR2032, 220 mAh, 3 V, 1 pc, 3 g
Frequency (f)	47.5 ... 63 Hz
Frame Size	R9
Input Voltage (U <sub>in</sub> )	380 ... 480 V
Mounting Type	Wall-mounted
Communication Protocol	CAN DeviceNet EtherNet/IP 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, Normal Use ( $I_n$ )	430 A
Output Current, Light-Overload Use ( $I_{LD}$ )	400 A
Output Current, Heavy-Duty Use ( $I_{HD}$ )	363 A
Output Power, Normal Use ( $P_n$ )	250 kW
Output Power, Light-Overload Use ( $P_{LD}$ )	200 kW
Output Power, Heavy-Duty Use ( $P_{HD}$ )	200 kW
Apparent Power Output	6072 W
Efficiency Level	298 kV·A
Standby Loss	IE2
Complete Drive Module Efficiency (IEC61800-9-2)	80 W

Operating Point Frequency / Current	Absolute Loss	Efficiency	Relative Loss
0/25 %	1471 W	91.5 %	0.5 %
0/50 %	2121 W	93.6 %	0.7 %
0/100 %	4032 W	93.9 %	1.4 %
50/25 %	1615 W	95.4 %	0.5 %
50/50 %	2393 W	96.5 %	0.8 %
50/100 %	4676 W	96.5 %	1.6 %
90/50 %	2821 W	97.6 %	0.9 %
90/100 %	6072 W	97.5 %	2.0 %

Temperature Rating	Maximum 40 °C Minimum -15 °C
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### Certificates and Declarations

Declaration of Conformity - CE	3AXD10001818627
REACH Date	20250905
REACH Declaration	9AKK107992A7060
REACH Information	True - contains substances > 0.1 mass percentage
RoHS Date	20240508
RoHS Declaration	3AXD10001818627
RoHS Information	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019

### Environmental

Global Warming Potential GWP Total	Distribution (Module A4) 18 kilograms of carbon dioxide equivalent End of Life (Modules C1-C4) 133 kilograms of carbon dioxide equivalent Installation (Module A5) 32 kilograms of carbon dioxide equivalent Manufacturing (Modules A1-A3) 1049 kilograms of carbon dioxide equivalent Total 54223 kilograms of carbon dioxide equivalent Use (Modules B1-B7) 52991 kilograms of carbon dioxide equivalent
SCIP	67c5daab-da3d-4123-804b-53a83b6d9528 Finland
WEEE Category	4. Large Equipment (Any External Dimension More Than 50 cm)

### External Classifications and Standards

ETIM 9

EC001857 - Frequency converter =< 1 kV

UNSPSC

39122001

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## Categories

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

