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 PRODUCT-DETAILS

## ACS580-07-0820A-4

LV AC general purpose cabinet-built drive,  
IEC: Pn 450 kW, 820 A, 400 V, UL: Pld 700 Hp,  
807 A, 480 V (ACS580-07-0820A-4)




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**General Information**


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<b>Global Commercial Alias:</b>	ACS580-07-0820A-4
<b>Product ID:</b>	3AXD50000041432
<b>ABB Type Designation:</b>	ACS580-07-0820A-4
<b>Catalog Description:</b>	LV AC general purpose cabinet-built drive, IEC: Pn 450 kW, 820 A, 400 V, UL: Pld 700 Hp, 807 A, 480 V (ACS580-07-0820A-4)
<b>Long Description:</b>	<p>The ACS580-07 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.</p> <p>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 ready-made standalone cabinet-built ACS580-07 variant comes in IP21 as standard. Also, IP42 and IP54 units are available.</p>
<b>Display Name:</b>	ACS580-07-0820A-4

## Ordering

<b>Customs Tariff Number:</b>	85044087
<b>HS Code:</b>	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
<b>Invoice Description:</b>	ACS580-07-0820A-4 PN: 450 kW, IN: 820 A
<b>Made To Order:</b>	Yes
<b>Minimum Order Quantity:</b>	1 piece
<b>Order Multiple:</b>	1 piece
<b>Quote Only:</b>	No
<b>Selling Unit of Measure:</b>	piece

## Dimensions

<b>Product Net Weight:</b>	440 kg 970.035 lb
<b>Product Net Depth / Length:</b>	698 mm 27.480 in
<b>Product Net Height:</b>	2145 mm 84.449 in
<b>Product Net Width:</b>	830 mm 32.677 in
<b>Package Level 1 Depth / Length:</b>	1100 mm 43.307 in
<b>Package Level 1 Height:</b>	2550 mm 100.394 in
<b>Package Level 1 Width:</b>	1430 mm 56.299 in
<b>Package Level 1 Units:</b>	1 crate

## Technical

<b>Number of Phases:</b>	3-phase
<b>Degree of Protection:</b>	IP21
<b>Enclosure Type NEMA:</b>	Type1
<b>Operating Humidity (RH<sub>amb</sub>):</b>	5 to 95%
<b>Sound dB (A):</b>	72 dB(A)
<b>Multiple Battery Information:</b>	Lithium Coin, CR2032, 220 mAh, 3 V, 1 pc, 3 g
<b>Frequency (f):</b>	47.5 ... 63 Hz
<b>Frame Size:</b>	R11
<b>Input Voltage (U<sub>in</sub>):</b>	380 ... 480 V
<b>Mounting Type:</b>	Cabinet-built

<b>Communication Protocol:</b>	CAN DeviceNet EtherNet/IP MODBUS Other Bus Systems PROFIBUS PROFINET IO TCP/IP
<b>Number of Hardware Interfaces:</b>	Industrial Ethernet 0 Other 2 Parallel 2 PROFINET 0 RS-232 0 RS-422 0 RS-485 1 Serial TTY 0 USB 1
<b>Includes:</b>	Control unit PC connection
<b>Analog Inputs:</b>	2
<b>Analog Outputs:</b>	2
<b>Number of Digital In/Outputs:</b>	6 / 3
<b>Output Current, Normal Use (<math>I_n</math>):</b>	820 A
<b>Output Current, Light-Overload Use (<math>I_{LD}</math>):</b>	810 A
<b>Output Current, Heavy-Duty Use (<math>I_{HD}</math>):</b>	625 A
<b>Output Power, Normal Use (<math>P_n</math>):</b>	450 kW
<b>Output Power, Light-Overload Use (<math>P_{LD}</math>):</b>	450 kW
<b>Output Power, Heavy-Duty Use (<math>P_{HD}</math>):</b>	355 kW
<b>Power Consumption (@<math>P_{cons}</math>):</b>	13725 W
<b>Apparent Power Output:</b>	568 kV·A
<b>Temperature Rating:</b>	Maximum 40 °C Minimum 0 °C
<b>Ecodesign Exemption:</b>	Energy efficiency data is not provided for this cabinet-based drive. Cabinet built drives, with already conform modules, are excluded from the scope of the EU ecodesign requirements (Regulation EU/2019/1781, §2.3.e).

## Technical UL

<b>Output Current, Heavy-Duty Use (UL):</b>	625 A
<b>Output Current, Light-Overload Use (UL):</b>	807 A
<b>Output Power, Heavy-Duty Use (UL):</b>	500 Hp
<b>Output Power, Light-Overload Use (UL):</b>	700 Hp

## Certificates and Declarations

<b>Declaration of Conformity - CE:</b>	3AXD10001818627
<b>REACH Date:</b>	20250905

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

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### Environmental

<b>SCIP:</b>	2361a3f3-2fee-41b4-bbdb-00925564e194 Finland
<b>WEEE Category:</b>	4. Large Equipment (Any External Dimension More Than 50 cm)

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### External Classifications and Standards

<b>ETIM 9:</b>	EC001857 - Frequency converter =< 1 kV
<b>ETIM 10:</b>	EC001857 - Frequency converter =< 1 kV
<b>UNSPSC:</b>	39122001

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### Categories

Products > Drives > Low Voltage AC Drives > General Purpose Drives > ACS580-07 - Cabinet-built drive

