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 PRODUCT-DETAILS

## ACS580-01-012A-2

LV AC general purpose wall-mounted drive,  
IEC: Pn 3 kW, 12 A, 230 V (ACS580-01-012A-2)




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### General Information

<b>Global Commercial Alias:</b>	ACS580-01-012A-2
<b>Product ID:</b>	3AXD50000417377
<b>ABB Type Designation:</b>	ACS580-01-012A-2
<b>EAN:</b>	6438177591092
<b>Catalog Description:</b>	LV AC general purpose wall-mounted drive, IEC: Pn 3 kW, 12 A, 230 V (ACS580-01-012A-2)
<b>Long Description:</b>	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.
<b>Display Name:</b>	ACS580-01-012A-2

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### 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>	ACS580-01-012A-2 PN: 3 kW, IN: 12 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>	4.6 kg 10.141 lb
<b>Product Net Depth / Length:</b>	223 mm 8.780 in
<b>Product Net Height:</b>	373 mm 14.685 in
<b>Product Net Width:</b>	125 mm 4.921 in
<b>Package Level 1 Depth / Length:</b>	225.00 mm
<b>Package Level 1 Height:</b>	370.00 mm
<b>Package Level 1 Width:</b>	526.00 mm
<b>Package Level 1 Units:</b>	1 carton

## Technical

Operating Point Frequency / Current	Absolute Loss	Efficiency	Relative Loss
0/25 %	56 W	81.9 %	1.2 %
0/50 %	67 W	87.9 %	1.4 %
0/100 %	95 W	90.5 %	2.0 %
50/25 %	59 W	89.9 %	1.2 %
50/50 %	73 W	93.3 %	1.5 %
50/100 %	111 W	94.4 %	2.3 %
90/50 %	85 W	95.6 %	1.8 %
90/100 %	143 W	96.0 %	3.0 %

<b>Number of Phases:</b>	3-phase
<b>Degree of Protection:</b>	IP21
<b>Enclosure Type NEMA:</b>	Type1
<b>Altitude:</b>	1000 m

<b>Operating Humidity (RH<sub>amb</sub>):</b>	5 ... 95
<b>Sound dB (A):</b>	59 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>	R1
<b>Input Voltage (U<sub>in</sub>):</b>	200 ... 240 V
<b>Mounting Type:</b>	Wall-mounted
<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 (I<sub>n</sub>):</b>	12 A
<b>Output Current, Light-Overload Use (I<sub>LD</sub>):</b>	11.8 A
<b>Output Current, Heavy-Duty Use (I<sub>HD</sub>):</b>	7.5 A
<b>Output Power, Normal Use (P<sub>n</sub>):</b>	3 kW
<b>Output Power, Light-Overload Use (P<sub>LD</sub>):</b>	3.0 kW
<b>Output Power, Heavy-Duty Use (P<sub>HD</sub>):</b>	2.2 kW
<b>Power Consumption (@P<sub>cons</sub>):</b>	143 W
<b>Apparent Power Output:</b>	4.8 kV-A
<b>Efficiency Level:</b>	IE2
<b>Standby Loss:</b>	13 W
<b>Temperature Rating:</b>	Maximum 40 °C Minimum -15 °C

## 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

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<b>SCIP:</b>	8105d671-49fa-4c1c-836d-baf56982886a Finland
<b>WEEE Category:</b>	5. Small Equipment (No External Dimension More Than 50 cm)

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## External Classifications and Standards

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<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

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

