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 PRODUCT-DETAILS

## ACS580-01-046A-4

LV AC general purpose wall-mounted drive,  
IEC: Pn 22 kW, 45 A, 400 V (ACS580-01-046A-4)




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### General Information

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<b>Global Commercial Alias:</b>	ACS580-01-046A-4
<b>Product ID:</b>	3AXD50000038963
<b>ABB Type Designation:</b>	ACS580-01-046A-4
<b>EAN:</b>	6438177459286
<b>Catalog Description:</b>	LV AC general purpose wall-mounted drive, IEC: Pn 22 kW, 45 A, 400 V (ACS580-01-046A-4)
<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>	ACS580-01-046A-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>	ACS580-01-046A-4 PN: 22 kW, IN: 45 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>	11.8 kg 26.015 lb
<b>Product Net Depth / Length:</b>	229 mm 9.016 in
<b>Product Net Height:</b>	490 mm 19.291 in
<b>Product Net Width:</b>	203 mm 7.992 in
<b>Package Level 1 Depth / Length:</b>	679 mm 26.73 in
<b>Package Level 1 Height:</b>	325 mm 12.80 in
<b>Package Level 1 Width:</b>	290 mm 11.42 in
<b>Package Level 1 Units:</b>	carton 1 piece

## Technical

Operating Point Frequency / Current	Absolute Loss	Efficiency	Relative Loss
0/25 %	200 W	89.2 %	0.6 %
0/50 %	260 W	92.5 %	0.8 %
0/100 %	459 W	93.3 %	1.5 %
50/25 %	216 W	94.1 %	0.7 %
50/50 %	290 W	95.8 %	0.9 %
50/100 %	534 W	96.1 %	1.7 %
90/50 %	328 W	97.3 %	1.1 %
90/100 %	672 W	97.3 %	2.2 %

<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>	76 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>	R3
<b>Input Voltage (U<sub>in</sub>):</b>	380 ... 480 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>	45 A
<b>Output Current, Light-Overload Use (I<sub>LD</sub>):</b>	42.8 A
<b>Output Current, Heavy-Duty Use (I<sub>HD</sub>):</b>	37.7 A
<b>Output Power, Normal Use (P<sub>n</sub>):</b>	22 kW
<b>Output Power, Light-Overload Use (P<sub>LD</sub>):</b>	22.0 kW
<b>Output Power, Heavy-Duty Use (P<sub>HD</sub>):</b>	18.5 kW
<b>Power Consumption (@P<sub>cons</sub>):</b>	672 W
<b>Apparent Power Output:</b>	31 kV-A
<b>Efficiency Level:</b>	IE2
<b>Standby Loss:</b>	16 W
<b>Temperature Rating:</b>	Maximum 40 °C Minimum -15 °C

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### Certificates and Declarations

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<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>	8e1cd225-4cd2-4db1-8a7b-419a51ce1ae3 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

