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 PRODUCT-DETAILS

## ACS880-01-087A-3

LV AC industrial wall-mounted single drive,  
IEC: Pn 45 kW, 87 A, 400 V (ACS880-01-087A-3)




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**General Information**


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<b>Global Commercial Alias:</b>	ACS880-01-087A-3
<b>Product ID:</b>	3AUA0000108023
<b>ABB Type Designation:</b>	ACS880-01-087A-3
<b>EAN:</b>	6438177558392
<b>Catalog Description:</b>	LV AC industrial wall-mounted single drive, IEC: Pn 45 kW, 87 A, 400 V (ACS880-01-087A-3)
<b>Long Description:</b>	The ACS880-01 drives are customized to meet the particular needs of specific industries, such as oil and gas, mining, metals, chemicals, cement, power plants, material handling, pulp and paper, sawmills, marine, water and wastewater, food and beverage, and automotive. They can control a wide range of applications, including cranes, extruders, winches, winders, conveyors, mixers, compressors, centrifuges, test benches, elevators, extruders, pumps and fans. The ACS880-01 comes in one compact package for easy installation and commissioning. The drive can be installed on the wall as standard and in a cabinet as an option. The drive offering includes enclosure classes up to IP55, making it suitable for most environments and installations. ACS880-01 drives have all the essential features built-in. These features include as standard a choke for harmonic filtering as well as options like a brake chopper, EMC filter and communication protocol adapter, functional safety, external output filters and I/O extension modules.
<b>Display Name:</b>	ACS880-01-087A-3

### 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>	ACS880-01-087A-3 PN: 45 kW, IN: 87 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>	22.8 kg 50.265 lb
<b>Product Net Depth / Length:</b>	274 mm 10.787 in
<b>Product Net Height:</b>	732 mm 28.819 in
<b>Product Net Width:</b>	203 mm 7.992 in
<b>Package Level 1 Depth / Length:</b>	896 mm 35.276 in
<b>Package Level 1 Height:</b>	329 mm 12.953 in
<b>Package Level 1 Width:</b>	293 mm 11.535 in
<b>Package Level 1 Units:</b>	1 carton

### Technical

Operating Point Frequency / Current	Absolute Loss	Efficiency	Relative Loss
0/25 %	271 W	92.4 %	0.4 %
0/50 %	390 W	94.2 %	0.6 %
0/100 %	700 W	94.7 %	1.2 %
50/25 %	296 W	95.8 %	0.5 %
50/50 %	444 W	96.7 %	0.7 %
50/100 %	840 W	96.9 %	1.4 %
90/50 %	534 W	97.8 %	0.9 %
90/100 %	1129 W	97.6 %	1.9 %

<b>Number of Phases:</b>	3-phase
<b>Degree of Protection:</b>	IP21
<b>Enclosure Type NEMA:</b>	Type1
<b>Altitude:</b>	4000 m
<b>Operating Humidity (RH<sub>amb</sub>):</b>	5 ... 95
<b>Sound dB (A):</b>	64 dB(A)
<b>Multiple Battery Information:</b>	Lithium Coin, CR2032, 220 mAh, 3 V, 2 pcs, 6 g
<b>Frequency (f):</b>	47.5 ... 63 Hz
<b>Frame Size:</b>	R5
<b>Input Voltage (U<sub>in</sub>):</b>	380 ... 415 V
<b>Mounting Type:</b>	Wall-mounted
<b>Communication Protocol:</b>	CAN DeviceNet EtherNet/IP MODBUS Other Bus Systems PROFIsafe PROFIBUS PROFINET IO
<b>Number of Hardware Interfaces:</b>	Industrial Ethernet 0 Other 4 Parallel 0 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 / 2
<b>Output Current, Normal Use (I<sub>n</sub>):</b>	87 A
<b>Output Current, Light-Overload Use (I<sub>LD</sub>):</b>	83 A
<b>Output Current, Heavy-Duty Use (I<sub>HD</sub>):</b>	72 A
<b>Output Power, Normal Use (P<sub>n</sub>):</b>	45 kW
<b>Output Power, Light-Overload Use (P<sub>LD</sub>):</b>	45 kW
<b>Output Power, Heavy-Duty Use (P<sub>HD</sub>):</b>	37 kW
<b>Power Consumption (@P<sub>cons</sub>):</b>	1129 W
<b>Apparent Power Output:</b>	60 kV-A
<b>Efficiency Level:</b>	IE2
<b>Standby Loss:</b>	30 W
<b>Temperature Rating:</b>	Maximum 40 °C

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### Certificates and Declarations

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<b>Declaration of Conformity - CE:</b>	3AXD10000497831
<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>	3AXD10000497831
<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>Recyclability Rate of the Product acc. to EN45555:</b>	75.8 %
<b>SCIP:</b>	86747225-0c21-49aa-b6ea-31ca7c4cb393 Finland
<b>WEEE Category:</b>	4. Large Equipment (Any 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 > Industrial Drives > ACS880 Single Drives > ACS880-01 - Wall-mounted single drive

