



 PRODUCT-DETAILS

ACS880-01-087A-3

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



General Information

Global Commercial Alias	ACS880-01-087A-3
Product ID	3ABD00035949-D
ABB Type Designation	ACS880-01-087A-3
Catalog Description	LV AC industrial wall-mounted single drive, IEC: Pn 45 kW, 87 A (ACS880-01-087A-3)

Long Description

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.

Ordering

Customs Tariff Number	85044099
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HS Code	850440-- Electrical transformers, static converters (for example, rectifiers) and inductors.- Static converters
Invoice Description	ACS880-01-087A-3 PN: 45KW, IN: 87A
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	23 kg
Product Net Depth / Length	274 mm
Product Net Height	730 mm
Product Net Width	203 mm
Package Level 1 Depth / Length	830 mm
Package Level 1 Height	510 mm
Package Level 1 Width	280 mm
Package Level 1 Units	1 carton

Technical

Number of Phases	3-phase
Degree of Protection	IP21
Enclosure Type NEMA	Type1
Frequency (f)	47.5 ... 63 Hz
Frame Size	R5
Input Voltage (U_{in})	380 ... 415 V
Mounting Type	Wall-mounted_NO UNIT\$
Output Current, Normal	87 A
Use (I_n)	
Output Current, Light-	83 A
Overload Use (I_{LD})	
Output Current, Heavy-	72 A
Duty Use (I_{HD})	
Output Power, Normal	45 kW
Use (P_n)	
Output Power, Light-	45 kW
Overload Use (P_{LD})	
Output Power, Heavy-	37 kW
Duty Use (P_{HD})	
Efficiency Level	IE2
Complete Drive Module Efficiency (IEC61800-9-2)	

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

External Classifications and Standards

UNSPSC

39122001

Environmental

WEEE Category

4. Large Equipment (Any External Dimension More Than 50 cm)

Categories

Drives → Low Voltage AC Drives → Industrial Drives → ACS880 Single Drives → ACS880-01 - Wall-mounted single drive

