



PRODUCT-DETAILS

ACS880-01-05A6-3

LV AC industrial wall-mounted single drive,  
IEC: Pn 2.2 kW, 5.6 A, 400 V (ACS880-01-05A6-3)



General Information	
Global Commercial Alias	ACS880-01-05A6-3
Product ID	3AUA0000107987
ABB Type Designation	ACS880-01-05A6-3
EAN	6438177557906
Catalog Description	LV AC industrial wall-mounted single drive, IEC: Pn 2.2 kW, 5.6 A, 400 V (ACS880-01-05A6-3)
Long Description	<p>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.</p> <p>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.</p>

Ordering		
Country of Origin	Finland (FI)	Saudi Arabia (SA)
Customs Tariff Number	85044085	
HS Code	850440-- Electrical transformers, static converters (for example, rectifiers) and inductors.- Static converters	
Invoice Description	ACS880-01-05A6-3 PN: 2.2 kW, IN: 5.6 A	
Made To Order	Yes	
Minimum Order Quantity	1 piece	
Order Multiple	1 piece	
Quote Only	No	
Selling Unit of Measure	piece	

Container Information	
Gross Volume	14.327 dm³

Dimensions	
Product Net Weight	7.0 kg 15.432 lb
Product Net Depth / Length	226 mm 8.898 in
Product Net Height	409 mm
Product Net Width	155 mm 6.102 in
Package Level 1 Depth / Length	574 mm
Package Level 1 Height	281 mm
Package Level 1 Width	256 mm
Package Level 1 Units	1 carton

Technical	
Number of Phases	3
Degree of Protection	IP21
Enclosure Type NEMA	Type1
Altitude	4000 m 5 ... 95
Sound dB (A)	50 dB(A)
Multiple Battery Information	Lithium Coin, CR2032, 220 mAh, 3 V, 2 pcs, 6 g
Frequency (f)	47.5 ... 63 Hz
Frame Size	R1
Input Voltage (U <sub>in</sub> )	380 ... 415 V
Mounting Type	Wall-mounted
Communication Protocol	CAN DeviceNet EtherNet/IP MODBUS Other Bus Systems PROFIsafe PROFIBUS PROFINET IO
Number of Hardware	Industrial Ethernet 0

Interfaces

Other 4  
Parallel 0  
PROFINET 0  
RS-232 0  
RS-422 0  
RS-485 1  
Serial TTY 0  
USB 1

Includes

Control unit  
PC connection

Analog Inputs	2
Analog Outputs	2
Number of Digital In/Outputs	6 / 2
Output Current, Heavy-Duty Use ( $I_{HD}$ )	4.0 A
Output Current, Light-Overload Use ( $I_{LD}$ )	5.3 A
Output Current, Normal Use ( $I_n$ )	5.6 A
Output Power, Heavy-Duty Use ( $P_{HD}$ )	1.5 kW
Output Power, Light-Overload Use ( $P_{LD}$ )	2.2 kW
Output Power, Normal Use ( $P_n$ )	2.2 kW
Apparent Power Output	3.9 kV·A
Efficiency Level	IE2
Standby Loss	23 W

Complete Drive Module Efficiency (61800-9-2)

Operating Point Frequency / Current	Absolute Loss	Relative Loss	Efficiency
0 / 25 %	43 W	1.1 %	82.8 %
0 / 50 %	48 W	1.2 %	89.2 %
0 / 100 %	62 W	1.6 %	92.2 %
50 / 25 %	44 W	1.1 %	90.7 %
50 / 50 %	51 W	1.3 %	94.2 %
50 / 100 %	68 W	1.8 %	95.7 %
90 / 50 %	55 W	1.4 %	96.4 %
90 / 100 %	78 W	2.0 %	97.3 %

Temperature Rating

Maximum 40 °C

Classifications

ETIM 8	EC001857 - Frequency converter =< 1 kV
ETIM 9	EC001857 - Frequency converter =< 1 kV
UNSPSC	39122001

Environmental

SCIP	41b0aacf-6aee-4855-80d0-b0b23674f3cc Finland (FI)
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)

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**Additional Information**

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Product Main Type	ACS880-01
Product Name	Frequency converter

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**Categories**

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

