

PRODUCT-DETAILS

ACS880-01-027A-5

ACS880-01-027A-5 PN: 15.0 kW, IN: 27 A



General Information

Global Commercial Alias	ACS880-01-027A-5
Product ID	3AUA0000090436
ABB Type Designation	ACS880-01-027A-5
EAN	6438177557265
Catalog Description	ACS880-01-027A-5 PN: 15.0 kW, IN: 27 A

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.

Long Description

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

Country of Origin	Finland (FI)
Customs Tariff Number	85044086
Invoice Description	ACS880-01-027A-5 PN: 15.0 kW, IN: 27 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	21.324 dm ³
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Dimensions

Product Net Weight	10.8 kg 23.810 lb
Product Net Depth / Length	261 mm 10.276 in
Product Net Height	475 mm
Product Net Width	172 mm 6.772 in
Package Level 1 Depth / Length	634 mm
Package Level 1 Height	316 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
Sound dB (A)	60 dB(A)
Frequency (f)	47.5 ... 63 Hz
Frame Size	R3
Input Voltage (U _{in})	380 ... 500 V
Mounting Type	Wall-mounted
Communication Protocol	CAN DeviceNet EtherNet/IP MODBUS Other Bus Systems PROFIsafe PROFIBUS PROFINET IO
Number of Hardware Interfaces	Industrial Ethernet 0 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})	21 A
Output Current, Light-Overload Use (I_{LD})	26 A
Output Current, Normal Use (I_n)	27 A
Output Power, Heavy-Duty Use (P_{HD})	11.0 kW
Output Power, Light-Overload Use (P_{LD})	15.0 kW
Output Power, Normal Use (P_n)	15.0 kW
Apparent Power Output	23 kV·A
Efficiency Level	IE2
Standby Loss	27 W
Complete Drive Module Efficiency (61800-9-2)	

Operating Point Frequency / Current	Absolute Loss	Relative Loss	Efficiency
0 / 25 %	127 W	0.5 %	90.7 %
0 / 50 %	163 W	0.7 %	93.6 %
0 / 100 %	250 W	1.1 %	95.0 %
50 / 25 %	132 W	0.6 %	95.1 %
50 / 50 %	174 W	0.7 %	96.6 %
50 / 100 %	284 W	1.2 %	97.2 %
90 / 50 %	191 W	0.8 %	97.9 %
90 / 100 %	326 W	1.4 %	98.2 %

Temperature Rating Maximum 40 °C

Additional Information

Product Main Type	ACS880-01
Product Name	Frequency converter

Classifications

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

Environmental

SCIP	4ac5f0da-ba5c-4c9a-bfbf-279008b38a92 Finland (FI)
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)

Categories

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

