

## PRODUCT-DETAILS

# ACS880-01-077A-5

ACS880-01-077A-5 PN: 45 kW, IN: 77 A



## General Information

Global Commercial Alias	ACS880-01-077A-5
Product ID	3AUA0000090440
ABB Type Designation	ACS880-01-077A-5
EAN	6438177558149
Catalog Description	ACS880-01-077A-5 PN: 45 kW, IN: 77 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	ACS880-01-077A-5 PN: 45 kW, IN: 77 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	40.715 dm³
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Dimensions

Product Net Weight	22.8 kg 50.265 lb
Product Net Depth / Length	274 mm 10.787 in
Product Net Height	732 mm
Product Net Width	203 mm 7.992 in
Package Level 1 Depth / Length	896 mm
Package Level 1 Height	329 mm
Package Level 1 Width	293 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)	64 dB(A)
Multiple Battery Information	Lithium Coin, CR2032, 220 mAh, 3 V, 2 pcs, 6 g
Frequency (f)	47.5...63 Hz
Frame Size	R5
Input Voltage (U <sub>in</sub> )	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 ( $I_{HD}$ )	65 A
Output Current, Light-Overload Use ( $I_{LD}$ )	73 A
Output Current, Normal Use ( $I_n$ )	77 A
Output Power, Heavy-Duty Use ( $P_{HD}$ )	37 kW
Output Power, Light-Overload Use ( $P_{LD}$ )	45 kW
Output Power, Normal Use ( $P_n$ )	45 kW
Apparent Power Output	67 kV·A
Efficiency Level	IE2
Standby Loss	30 W
Complete Drive Module Efficiency (61800-9-2)	

Operating Point Frequency / Current	Absolute Loss	Relative Loss	Efficiency
0 / 25 %	244 W	0.4 %	93.7 %
0 / 50 %	343 W	0.5 %	95.3 %
0 / 100 %	593 W	0.9 %	95.9 %
50 / 25 %	264 W	0.4 %	96.6 %
50 / 50 %	386 W	0.6 %	97.4 %
50 / 100 %	702 W	1.1 %	97.6 %
90 / 50 %	456 W	0.7 %	98.3 %
90 / 100 %	916 W	1.4 %	98.3 %

Temperature Rating	Maximum 40 °C
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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	95c72eb4-3259-46cb-876b-868fd75c4f78 Finland (FI)
WEEE Category	4. Large Equipment (Any External Dimension More Than 50 cm)

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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

