



PRODUCT-DETAILS

ACS880-01-077A-5

LV AC industrial wall-mounted single drive,  
IEC: Pn 45 kW, 77 A, 500 V, UL: Pld 60 Hp, 77 A,  
460 V (ACS880-01-077A-5)



General Information	
Global Commercial Alias	ACS880-01-077A-5
Product ID	3AUA0000090440
ABB Type Designation	ACS880-01-077A-5
EAN	6438177558149
Catalog Description	LV AC industrial wall-mounted single drive, IEC: Pn 45 kW, 77 A, 500 V, UL: Pld 60 Hp, 77 A, 460 V (ACS880-01-077A-5)
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

Customs Tariff Number	85044086
HS Code	850440-- Electrical transformers, static converters (for example, rectifiers) and inductors.- Static converters
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

## Dimensions

Product Net Weight	22.8 kg 50.265 lb
Product Net Depth / Length	274 mm 10.787 in
Product Net Height	732 mm 28.819 in
Product Net Width	203 mm 7.992 in
Package Level 1 Depth / Length	896 mm 35.276 in
Package Level 1 Height	329 mm 12.953 in
Package Level 1 Width	293 mm 11.535 in
Package Level 1 Units	1 carton

## Certificates and Declarations

Declaration of Conformity - CE	3AXD10000497831
REACH Date	20241203
REACH Declaration	9AKK107992A7060
REACH Information	True - contains substances > 0.1 mass percentage
RoHS Date	20240508
RoHS Information	3AXD10000497831
RoHS Status	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019

## Technical

Number of Phases	3
Degree of Protection	IP21
Enclosure Type NEMA	Type1
Altitude	4000 m 5 ... 95
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, Normal Use ( $I_N$ )	77 A
Output Current, Light-Overload Use ( $I_{LD}$ )	73 A
Output Current, Heavy-Duty Use ( $I_{HD}$ )	65 A
Output Power, Normal Use ( $P_N$ )	45 kW
Output Power, Light-Overload Use ( $P_{LD}$ )	45 kW
Output Power, Heavy-Duty Use ( $P_{HD}$ )	37 kW
	916 W
Apparent Power Output	67 kV-A
Efficiency Level	IE2
Standby Loss	30 W
Complete Drive Module Efficiency (IEC61800-9-2)	

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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Technical UL	
Output Current, Heavy-Duty Use (UL)	65 A
Output Current, Light-Overload Use (UL)	77 A
Output Current, Normal Use (UL)	- A
Output Power, Heavy-Duty Use (UL)	50 Hp
Output Power, Light-Overload Use (UL)	60 Hp

External Classifications and Standards	
ETIM 9	EC001857 - Frequency converter =< 1 kV
UNSPSC	39122001

Environmental	
SCIP	95c72eb4-3259-46cb-876b-868fd75c4f78 Finland
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

