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 PRODUCT-DETAILS

## ACS880-04-820A-3

LV AC industrial single drive module, IEC: Pn  
450 kW, 820 A, 400 V (ACS880-04-820A-3)




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### General Information

Global Commercial Alias	ACS880-04-820A-3
Product ID	3AUA0000139075
ABB Type Designation	ACS880-04-820A-3
Catalog Description	LV AC industrial single drive module, IEC: Pn 450 kW, 820 A, 400 V (ACS880-04-820A-3)

The ACS880-04 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 ACS880-04 modules have all the essential features built-in including a choke for harmonic filtering as standard, and options such as a brake chopper, EMC filter and communication protocol adapter, functional safety and I/O extension modules. The all built-in design combined with IP20 protection significantly simplifies engineering. The drive's compact size, flexible cabling directions and versatile mounting possibilities from narrow bookshelf to flat mounting and horizontal mounting make it an ideal fit for almost any enclosure. The control unit with I/O and communication connections can be mounted outside the power module or integrated into it.

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## Ordering

Country of Origin	Finland (FI)
Customs Tariff Number	85044086
HS Code	850440-- Electrical transformers, static converters (for example, rectifiers) and inductors.- Static converters
Invoice Description	ACS880-04-820A-3 PN: 450 kW, IN: 820 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	363.763 lb
Product Net Depth / Length	19.921 in
Product Net Height	68.543 in
Product Net Width	13.780 in
Package Level 1 Depth / Length	80.709 in
Package Level 1 Height	19.69 in
Package Level 1 Width	25.591 in
Package Level 1 Units	1 case

## Technical

Number of Phases	3
Degree of Protection	IP20
Enclosure Type NEMA	Open Type
Altitude	4000 m
	5 ... 95
Sound dB (A)	72 dB(A)
Multiple Battery Information	Lithium Coin, CR2032, 220 mAh, 3 V, 2 pcs, 6 g
Frequency (f)	47.5 ... 63 Hz
Frame Size	R11
Input Voltage (U <sub>in</sub> )	380 ... 415 V
Mounting Type	Module
Communication Protocol	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	820 A

Use ( $I_n$ )	
Output Current, Light-	810 A
Overload Use ( $I_{LD}$ )	
Output Current, Heavy-	625 A
Duty Use ( $I_{HD}$ )	
Output Power, Normal	450 kW
Use ( $P_n$ )	
Output Power, Light-	450 kW
Overload Use ( $P_{LD}$ )	
Output Power, Heavy-	355 kW
Duty Use ( $P_{HD}$ )	
Apparent Power Output	568 kV·A
Efficiency Level	IE2
Standby Loss	423 W
Complete Drive Module Efficiency (61800-9-2)	

Operating Point Frequency / Current	Absolute Loss	Relative Loss	Efficiency
0 / 25 %	2503 W	0.4 %	92.4 %
0 / 50 %	3597 W	0.6 %	94.3 %
0 / 100 %	6629 W	1.2 %	94.7 %
50 / 25 %	2707 W	0.5 %	95.9 %
50 / 50 %	4009 W	0.7 %	96.9 %
50 / 100 %	7764 W	1.4 %	97.0 %
90 / 50 %	4698 W	0.8 %	97.9 %
90 / 100 %	9740 W	1.7 %	97.9 %

Temperature Rating Maximum 40 °C

### External Classifications and Standards

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

### Environmental

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

### Additional Information

Product Name Frequency converter

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## Categories

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Drives → Low Voltage AC Drives → Industrial Drives → ACS880 Drive Modules → ACS880-04 - Single drive module

