

PRODUCT-DETAILS

# ACS880-04-820A-3

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



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, UL: Pld - Hp, - A, - V (ACS880-04-820A-3)
Long Description	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.
	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.

Ordering	
Country of Origin	Finland (FI)
Customs Tariff Number	85044086

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

Container Information

Gross Volume	307.722 dm³
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Dimensions

Product Net Weight	165 kg 363.763 lb
Product Net Depth / Length	505 mm
Product Net Height	1741 mm
Product Net Width	350 mm
Package Level 1 Depth / Length	2050 mm
Package Level 1 Height	502 mm
Package Level 1 Width	650 mm

Technical

Number of Phases	3
Degree of Protection	IP20
Enclosure Type NEMA	Open Type
Altitude	4000 m
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	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 ( $I_{HD}$ )	625 A
Output Current, Light-Overload Use ( $I_{LD}$ )	810 A
Output Current, Normal Use ( $I_n$ )	820 A
Output Power, Heavy-Duty Use ( $P_{HD}$ )	355 kW
Output Power, Light-Overload Use ( $P_{LD}$ )	450 kW
Output Power, Normal Use ( $P_n$ )	450 kW
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
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Additional Information

Product Main Type	ACS880-04
Product Name	Frequency converter

Classifications

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)
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## Categories

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

