



PRODUCT-DETAILS

ACS880-04-505A-3

LV AC industrial single drive module, IEC: Pn 250 kW, 505 A, 400 V (ACS880-04-505A-3)



General Information	
Global Commercial Alias	ACS880-04-505A-3
Product ID	3AUA0000139052
ABB Type Designation	ACS880-04-505A-3
Catalog Description	LV AC industrial single drive module, IEC: Pn 250 kW, 505 A, 400 V (ACS880-04-505A-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

Customs Tariff Number	85044087
HS Code	850440 -- ELECTRICAL MACHINERY AND EQUIPMENT AND PARTS THEREOF; SOUND RECORDERS AND REPRODUCERS, TELEVISION IMAGE AND SOUND RECORDERS AND REPRODUCERS, AND PARTS AND ACCESSORIES OF SUCH ARTICLES;Electrical transformers, static converters (for example, rectifiers) and inductors;Static converters
Invoice Description	ACS880-04-505A-3 PN: 250 kW, IN: 505 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	165 kg 363.763 lb
Product Net Depth / Length	506 mm 19.921 in
Product Net Height	1541 mm 60.669 in
Product Net Width	350 mm 13.780 in
Package Level 1 Depth / Length	2050 mm 80.709 in
Package Level 1 Height	500 mm 19.69 in
Package Level 1 Width	650 mm 25.591 in
Package Level 1 Units	1 case

Technical

Number of Phases	3-phases
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	R10
Input Voltage (U _{in})	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, Normal	505 A
Use (I_n)	
Output Current, Light-	485 A
Overload Use (I_{LD})	
Output Current, Heavy-	361 A
Duty Use (I_{HD})	
Output Power, Normal	250 kW
Use (P_n)	
Output Power, Light-	250 kW
Overload Use (P_{LD})	
Output Power, Heavy-	200 kW
Duty Use (P_{HD})	
	6493 W
Apparent Power Output	350 kV-A
Efficiency Level	IE2
Standby Loss	392 W
Complete Drive Module	
Efficiency (IEC61800-9-2)	

Operating Point Frequency / Current	Absolute Loss	Relative Loss	Efficiency
0 / 25 %	1802 W	0.5 %	91.2 %
0 / 50 %	2543 W	0.7 %	93.5 %
0 / 100 %	4521 W	1.3 %	94.2 %
50 / 25 %	1933 W	0.6 %	95.3 %
50 / 50 %	2773 W	0.8 %	96.5 %
50 / 100 %	5260 W	1.5 %	96.7 %
90 / 50 %	3198 W	0.9 %	97.7 %
90 / 100 %	6493 W	1.9 %	97.7 %

Temperature Rating	Maximum 40 °C
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Certificates and Declarations

Declaration of Conformity - CE	3AXD10000497831
REACH Date	20250320
REACH Declaration	9AKK107992A7060
REACH Information	True - contains substances > 0.1 mass percentage
RoHS Date	20240508
RoHS Declaration	3AXD10000497831
RoHS Information	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019

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

External Classifications and Standards	
ETIM 9	EC001857 - Frequency converter =< 1 kV
ETIM 10	EC001857 - Frequency converter =< 1 kV
UNSPSC	39122001

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

