



PRODUCT-DETAILS

ACS580-04-505A-4

LV AC general purpose drive module, IEC: Pn 250 kW, 505 A, 400 V, UL: Pld 400 Hp, 483 A, 480 V (ACS580-04-505A-4)



General Information	
Global Commercial Alias	ACS580-04-505A-4
Product ID	3AUA0000170509
ABB Type Designation	ACS580-04-505A-4
EAN	6438177340423
Catalog Description	LV AC general purpose drive module, IEC: Pn 250 kW, 505 A, 400 V, UL: Pld 400 Hp, 483 A, 480 V (ACS580-04-505A-4)
Long Description	The ACS580-04 is plug-in ready to control your compressors, conveyors, pumps, extruders, centrifuges, mixers, fans and many other variable and constant torque applications, in a variety of light industries, including food and beverage, plastic, textile, material handling, and agriculture.
	All essential features are built-in as standard, simplifying drive selection, and making additional hardware unnecessary. Versatile and straightforward settings menu and assistants enable fast setup, commissioning, use and maintenance, while rugged and robust design makes it a good fit for various environments. With the ACS580 drives you can easily take full control of your processes to comprehensively manage your plant. The ACS580-04 drive module comes in IP00 enclosure as standard for cabinet installation. Also, IP20 enclosure is available.

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	ACS580-04-505A-4 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	161 kg 354.945 lb
Product Net Depth / Length	529 mm 20.827 in
Product Net Height	1462 mm 57.559 in
Product Net Width	350 mm 13.780 in
Package Level 1 Depth / Length	2050 mm 80.71 in
Package Level 1 Height	500 mm 19.69 in
Package Level 1 Width	650 mm 25.59 in
Package Level 1 Units	1 case

Technical

Number of Phases	3-phase
Degree of Protection	IP00
Enclosure Type NEMA	Open Type
Altitude	1000 m 95
Sound dB (A)	72 dB(A)
Multiple Battery Information	Lithium Coin, CR2032, 220 mAh, 3 V, 1 pc, 3 g
Frequency (f)	47.5 ... 63 Hz
Frame Size	R10
Input Voltage (U _{in})	380 ... 480 V
Mounting Type	Module
Communication Protocol	CAN DeviceNet EtherNet/IP MODBUS Other Bus Systems PROFIBUS PROFINET IO TCP/IP
Number of Hardware Interfaces	Industrial Ethernet 0 Other 2 Parallel 2 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 / 3
Output Current, Normal Use (I_n)	505 A
Output Current, Light-Overload Use (I_{LD})	485 A
Output Current, Heavy-Duty Use (I_{HD})	361 A
Output Power, Normal Use (P_n)	250 kW
Output Power, Light-Overload Use (P_{LD})	250 kW
Output Power, Heavy-Duty Use (P_{HD})	200 kW
	6492 W
Apparent Power Output	350 kV-A
Efficiency Level	IE2
Standby Loss	423 W
Complete Drive Module Efficiency (IEC61800-9-2)	

Operating Point Frequency / Current	Absolute Loss	Efficiency	Relative Loss
0/25 %	1842 W	92.4 %	0.4 %
0/50 %	2604 W	94.4 %	0.6 %
0/100 %	4581 W	95.0 %	1.1 %
50/25 %	1971 W	95.9 %	0.5 %
50/50 %	2864 W	97.0 %	0.7 %
50/100 %	5299 W	97.2 %	1.3 %
90/50 %	3275 W	98.1 %	0.8 %
90/100 %	6492 W	98.1 %	1.5 %

Temperature Rating	Maximum 40 °C Minimum -15 °C
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Technical UL

Output Current, Heavy-Duty Use (UL)	361 A
Output Current, Light-Overload Use (UL)	483 A
Output Current, Normal Use (UL)	505 A
Output Power, Heavy-Duty Use (UL)	300 Hp
Output Power, Light-Overload Use (UL)	400 Hp

Certificates and Declarations

Declaration of Conformity - CE	3AXD10001818627
REACH Date	20250905
REACH Declaration	9AKK107992A7060
REACH Information	True - contains substances > 0.1 mass percentage
RoHS Date	20240508
RoHS Declaration	3AXD10001818627
RoHS Information	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019

Environmental

SCIP	58f22844-2faf-42d0-845e-c7388e32f3e4 Finland
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 → General Purpose Drives → ACS580-04 - Drive module

