ABB

ACS880-01-477A-5

LV AC industrial wall-mounted single drive, IEC: Pn 250 kW, 477 A, 500 V, UL: Pld 350 Hp, 454 A, 480 V (ACS880-01-477A-5)

General Information

Global Commercial Alias	ACS880-01-477A-5
Product ID	3AXD50001204167
ABB Type Designation	ACS880-01-477A-5
EAN	6438177731276
Catalog Description	LV AC industrial wall-mounted single drive, IEC: Pn 250 kW, 477 A, 500 V, UL: Pld 350 Hp, 454 A, 480 V (ACS880-01-477A-5)
Long Description	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. 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.

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Ordering

Country of Origin	Finland (FI)
Customs Tariff Number	85044085
HS Code	850440-- Electrical transformers, static converters (for example, rectifiers) and inductors.- Static converters
Invoice Description	ACS880-01-477A-5 PN: 250 kW, IN: 477 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	95.0 kg 209.4 lb
Product Net Depth / Length	413 mm 16.26 in
Product Net Height	955 mm 37.60 in
Product Net Width	380 mm 14.96 in
Package Level 1 Depth / Length	1145 mm 45.08 in
Package Level 1 Height	654 mm 25.75 in
Package Level 1 Width	485 mm 19.09 in
Package Level 1 Units	1 case

Technical

Number of Phases	3
Degree of Protection	IP21
Enclosure Type NEMA	Type1
Altitude	4000 m
	5 ... 95
Sound dB (A)	70 dB(A)
Multiple Battery Information	Lithium Coin, CR2032, 220 mAh, 3 V, 2 pcs, 6 g
Frequency (f)	47.5 ... 63 Hz
Frame Size	R9
Input Voltage (U_{in})	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, Heavy-Duty Use (I_{HD})	385 A
Output Current, Light-Overload Use (I_{LD})	454 A
Output Current, Normal Use (I_n)	477 A
Output Power, Heavy-Duty Use (P_{HD})	200 kW
Output Power, Light-Overload Use (P_{LD})	250 kW
Output Power, Normal Use (P_n)	250 kW
Apparent Power Output	412 kV·A
Efficiency Level	IE2
Standby Loss	80 W

Complete Drive Module Efficiency (61800-9-2)

Operating Point Frequency / Current	Absolute Loss	Efficiency	Relative Loss
0/25 %	1413 W	92.6 %	0.4 %
0/50 %	2054 W	94.4 %	0.6 %
0/100 %	4006 W	94.5 %	1.2 %
50/25 %	1553 W	95.9 %	0.5 %
50/50 %	2333 W	96.9 %	0.7 %
50/100 %	4620 W	96.9 %	1.4 %
90/50 %	2675 W	98.0 %	0.8 %
90/100 %	5598 W	97.9 %	1.7 %

Temperature Rating	Maximum 40 °C
	Minimum -15 °C

Technical UL

Output Current, Heavy-Duty Use (UL)	385 A
Output Current, Light-Overload Use (UL)	454 A
Output Current, Normal Use (UL)	477 A
Output Power, Heavy-Duty Use (UL)	300 Hp
Output Power, Light-Overload Use (UL)	350 Hp
Output Power, Normal Use (UL)	400 Hp

Additional Information

Product Name	Frequency converter

Categories

Drives → Low Voltage AC Drives → Industrial Drives → ACS880 Single Drives → ACS880-01 - Wall-mounted single drive

Drives → Services → Spares and Consumables → Parts

2024/10/22   Subject to change without notice