ACS880-01-174A-7



PRODUCT-DETAILS

ACS880-01-174A-7

LV AC industrial wall-mounted single drive, IEC: Pn 160 kW, 174 A, 690 V, UL: Pld 200 Hp, 180 A, 575 V (ACS880-01-174A-7)



General Information	
Global Commercial Alias	ACS880-01-174A-7
Product ID	3AUA0000115109
ABB Type Designation	ACS880-01-174A-7
EAN	6438177388647
Catalog Description	LV AC industrial wall-mounted single drive, IEC: Pn 160 kW, 174 A, 690 V, UL: Pld 200 Hp, 180 A, 575 V (ACS880-01-174A-7)
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	
Customs Tariff Number	85044086
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	ACS880-01-174A-7 PN: 160 kW, IN: 174 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	68.0 kg
	149.914 lb
Product Net Depth /	386 mm
Length	15.197 in
Product Net Height	965 mm
	37.992 in
Product Net Width	300 mm
	11.811 in
Package Level 1 Depth /	1145 mm
Length	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-phase	
Degree of Protection	IP21	
Enclosure Type NEMA	Type1	
Altitude	4000 m	
	5 95	
Sound dB (A)	68 dB(A)	
Multiple Battery Information	Lithium Coin, CR2032, 220 mAh, 3 V, 2 pcs, 6 g	
Frequency (f)	47.5 63 Hz	
Frame Size	R8	
Input Voltage (U _{in})	525 690 V	
Mounting Type	Wall-mounted	
Communication Protocol	CAN DeviceNet EtherNet/IP MODBUS Other Bus Systems PROFISUS PROFIBUS PROFIBUS	
Number of Hardware Interfaces	Industrial Ethernet 0 Other 4 Parallel 0 PROFINET 0	

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RS-232 0 RS-422 0 RS-485 1 Serial TTY 0 USB 1

	USB 1
Includes	Control unit PC connection
Analog Inputs	2
Analog Outputs	2
Number of Digital In/Outputs	6/2
Output Current, Normal	174 A
Use (I _n)	
Output Current, Light-	165 A
Overload Use (I _{LD})	
Output Current, Heavy-	142 A
Duty Use (I_{HD})	
Output Power, Normal	160 kW
Use (P_n)	
Output Power, Light-	160 kW
Overload Use (P_{LD})	
Output Power, Heavy-	132 kW
Duty Use (P_{HD})	
	2670 W
Apparent Power Output	208 kV-A
Efficiency Level	IE2
Standby Loss	83 W
Complete Drive Module	

Operating Point Frequency / Current	Absolute Loss	Relative Loss	Efficiency
0 / 25 %	880 W	0.4 %	92.8 %
0 / 50 %	1228 W	0.6 %	94.6 %
0 / 100 %	1736 W	0.8 %	96.1 %
50 / 25 %	926 W	0.4 %	96.2 %
50 / 50 %	1274 W	0.6 %	97.3 %
50 / 100 %	2010 W	1.0 %	97.8 %
90 / 50 %	1461 W	0.7 %	98.2 %
90 / 100 %	2670 W	1.3 %	98.4 %

Temperature Rating Maximum 40 °C

Technical UL	
Output Current, Heavy- Duty Use (UL)	144 A
Output Current, Light- Overload Use (UL)	180 A
Output Current, Normal Use (UL)	- A
Output Power, Heavy- Duty Use (UL)	150 Hp
Output Power, Light- Overload Use (UL)	200 Hp

Efficiency (IEC61800-9-

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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

SCIP	d78dbb8e-1a37-478b-9675-e9e23a420e09 Finland
WEEE Category	4. Large Equipment (Any External Dimension More Than 50 cm)

External Classifications and Standards

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

Categories

 $Drives \rightarrow Low\ Voltage\ AC\ Drives \rightarrow Industrial\ Drives \rightarrow ACS880\ Single\ Drives \rightarrow ACS880-01\ -\ Wall-mounted\ single\ drive$

