

## PRODUCT-DETAILS

# ACS880-31-101A-5

LV AC industrial wall-mounted low harmonic single drive, IEC: Pn 55.0 kW, 101 A, 500 V, UL: Pld 75.0 Hp, 96 A, 480 V (ACS880-31-101A-5)



## General Information

Global Commercial Alias	ACS880-31-101A-5
Product ID	3AXD50000121205
ABB Type Designation	ACS880-31-101A-5
EAN	6438177548362
Catalog Description	LV AC industrial wall-mounted low harmonic single drive, IEC: Pn 55.0 kW, 101 A, 500 V, UL: Pld 75.0 Hp, 96 A, 480 V (ACS880-31-101A-5)
Long Description	The ACS880-31 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 compact ACS880-31 ultra-low harmonic drive produces exceptionally low harmonic content and exceeds the requirements set by low harmonic recommendations. The drive includes an active supply unit and integrated low harmonic line filter, meaning there is no need for external filters, multi-pulse arrangements or special transformers. Other features include output voltage boost and power factor correction.

## Ordering

Country of Origin	Finland (FI)
Customs Tariff Number	85044086
Invoice Description	ACS880-31-101A-5 PN: 55 kW, IN: 101 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	124.485 dm³
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Dimensions

Product Net Weight	103 kg 227.1 lb
Product Net Depth / Length	430 mm 16.929 in
Product Net Height	965 mm
Product Net Width	300 mm 11.811 in
Package Level 1 Depth / Length	1158 mm 45.591 in
Package Level 1 Height	654 mm 25.748 in
Package Level 1 Width	502.0 mm 19.764 in
Package Level 1 Units	1 carton

Technical

Number of Phases	3
Degree of Protection	IP21
Enclosure Type NEMA	Type1
Altitude	4000 m 5 to 95
Power Factor	1.0
Sound dB (A)	68 dB(A)
Multiple Battery Information	Lithium Coin, CR2032, 220 mAh, 3 V, 2 pcs, 6 g
Frequency (f)	47 ... 63 Hz
Frame Size	R8
Input Voltage (U <sub>in</sub> )	380 ... 500 V
Mounting Type	Wall-mounted
Communication Protocol	CAN DeviceNet EtherNet/IP MODBUS Other Bus Systems PROFIsafe PROFIBUS PROFINET IO TCP/IP
Number of Hardware Interfaces	Industrial Ethernet 0 Other 6 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 ( $I_{HD}$ )	77 A
Output Current, Light-Overload Use ( $I_{LD}$ )	91 A
Output Current, Normal Use ( $I_n$ )	101 A
Output Power, Heavy-Duty Use ( $P_{HD}$ )	45.0 kW
Output Power, Light-Overload Use ( $P_{LD}$ )	55.0 kW
Output Power, Normal Use ( $P_n$ )	55.0 kW
Apparent Power Output	87 kV·A
Efficiency Level	IE2
Standby Loss	89 W
Complete Drive Module Efficiency (61800-9-2)	

Operating Point Frequency / Current	Absolute Loss	Efficiency	Relative Loss
0/25 %	415 W	92.3 %	0.5 %
0/50 %	521 W	94.8 %	0.6 %
0/100 %	801 W	95.9 %	0.9 %
50/25 %	454 W	95.6 %	0.5 %
50/50 %	602 W	96.9 %	0.7 %
50/100 %	996 W	97.4 %	1.1 %
90/50 %	747 W	97.9 %	0.9 %
90/100 %	1577 W	97.7 %	1.8 %

Temperature Rating	Maximum +55 °C Minimum -15 °C
Ecodesign Exemption	Energy efficiency data is not provided for the drive. The low-harmonic drives are exempt from the EU ecodesign requirements (Regulation EU/2019/1781, §2.3.d).

Additional Information

Product Main Type	ACS880-31
Product Name	Frequency converter

Classifications

ETIM 8	EC001857 - Frequency converter =< 1 kV
ETIM 9	EC001857 - Frequency converter =< 1 kV
UNSPSC	39122001

Environmental

SCIP	15292056-d176-4797-82ee-344739f8f7bc Finland (FI)
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 single drives → ACS880-31 - Wall-mounted low harmonic single drive

