

PRODUCT-DETAILS

ACS880-31-014A-5

LV AC industrial wall-mounted low harmonic single drive, IEC: Pn 7.5 kW, 14 A, 500 V, UL: Pld 10.0 Hp, 14 A, 480 V (ACS880-31-014A-5)



General Information

Global Commercial Alias	ACS880-31-014A-5
Product ID	3AXD50000121014
ABB Type Designation	ACS880-31-014A-5
EAN	6438177548188
Catalog Description	LV AC industrial wall-mounted low harmonic single drive, IEC: Pn 7.5 kW, 14 A, 500 V, UL: Pld 10.0 Hp, 14 A, 480 V (ACS880-31-014A-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	ACS880-31-014A-5 PN: 7.5 kW, IN: 14.0 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	36.125 dm³
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Dimensions

Product Net Weight	21.3 kg 46.959 lb
Product Net Depth / Length	356 mm 14.016 in
Product Net Height	495 mm
Product Net Width	205 mm
Package Level 1 Depth / Length	676 mm 26.614 in
Package Level 1 Height	423 mm 16.654 in
Package Level 1 Width	289.0 mm 11.378 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)	57 dB(A)
Multiple Battery Information	Lithium Coin, CR2032, 220 mAh, 3 V, 2 pcs, 6 g
Frequency (f)	47 ... 63 Hz
Frame Size	R3
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 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})	11.0 A
Output Current, Light-Overload Use (I_{LD})	13 A
Output Current, Normal Use (I_n)	14 A
Output Power, Heavy-Duty Use (P_{HD})	5.5 kW
Output Power, Light-Overload Use (P_{LD})	7.5 kW
Output Power, Normal Use (P_n)	7.5 kW
Apparent Power Output	12 kV·A
Efficiency Level	IE2
Standby Loss	40 W
Complete Drive Module Efficiency (61800-9-2)	

Operating Point Frequency / Current	Absolute Loss	Efficiency	Relative Loss
0/25 %	120 W	84.7 %	1.0 %
0/50 %	142 W	90.1 %	1.2 %
0/100 %	201 W	92.8 %	1.7 %
50/25 %	127 W	91.3 %	1.0 %
50/50 %	157 W	94.3 %	1.3 %
50/100 %	243 W	95.5 %	2.0 %
90/50 %	186 W	96.2 %	1.5 %
90/100 %	355 W	96.3 %	2.9 %

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	179b4bf3-0cdb-42e8-86c3-79213fd287b1 Finland (FI)
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)

Categories

Drives → Low Voltage AC Drives → Industrial Drives → ACS880 single drives → ACS880-31 - Wall-mounted low harmonic single drive

