

PRODUCT-DETAILS

ACS880-14-442A-3

LV AC industrial regenerative single drive module, IEC: Pn 250 kW, 442 A, 400 V (ACS880-14-442A-3)



General Information	
Global Commercial Alias	ACS880-14-442A-3
Product ID	3AXD50000049193
ABB Type Designation	ACS880-14-442A-3
EAN	6438177548010
Catalog Description	LV AC industrial regenerative single drive module, IEC: Pn 250 kW, 442 A, 400 V (ACS880-14-442A-3)
Long Description	The ACS880-14 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 ACS880-14 regenerative drive module captures and utilizes braking energy which results in cost savings for the user. With mechanical or resistor braking energy is wasted as heat and additional cooling is often required, whereas regenerative drive operation offers significant savings in energy consumption and cooling. The drive reaches a unity power factor, meaning that electrical energy is used to its full potential. Equipped with an active supply unit and integrated low harmonic line filter, the regenerative drive produces exceptionally low harmonic content. These modules are specifically designed for machine builders and systems integrators. Bookshelf and flat variants can easily be pushed inside the cabinet using a pedestal on wheels.

Ordering		
Country of Origin	Finland (FI)	
Customs Tariff Number	85044085	
Invoice Description	ACS880-14-442A-3 PN: 250 kW, IN: 442 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	0.636 m³

Dimensions	
Product Net Weight	365 kg
Product Net Depth / Length	512 mm
Product Net Height	1741 mm
Product Net Width	713 mm
Package Level 1 Depth / Length	1077.0 mm
Package Level 1 Height	2050.0 mm
Package Level 1 Width	650.0 mm
Package Level 1 Units	1 carton

Technical	
Number of Phases	3
Degree of Protection	IP20
Enclosure Type NEMA	Open Type
Altitude	4000 m
	5 to 95
Power Factor	1.0
Sound dB (A)	75 dB(A)
Multiple Battery Information	Lithium Coin, CR2032, 220 mAh, 3 V, 2 pcs, 6 g
Frequency (f)	47 ... 63 Hz
Frame Size	R11
Input Voltage (U _{in})	380 ... 415 V
Mounting Type	Module for cabinet building
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})	363 A
Output Current, Light-Overload Use (I_{LD})	420 A
Output Current, Normal Use (I_n)	442 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	306 kV·A
Efficiency Level	IE2
Standby Loss	202 W
Complete Drive Module Efficiency (61800-9-2)	

Operating Point Frequency / Current	Absolute Loss	Efficiency	Relative Loss
0/25 %	1530 W	91.8 %	0.5 %
0/50 %	2194 W	93.8 %	0.7 %
0/100 %	3960 W	94.4 %	1.3 %
50/25 %	1712 W	95.2 %	0.6 %
50/50 %	2633 W	96.2 %	0.9 %
50/100 %	5425 W	96.1 %	1.8 %
90/50 %	3631 W	97.1 %	1.2 %
90/100 %	8614 W	96.5 %	2.8 %

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

Additional Information

Product Main Type	ACS880-14
Product Name	Frequency converter

Classifications

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

UNSPSC

39122001

Environmental

SCIP	c2040ff1-7faf-493e-a1e8-90c1774c7ea5 Finland (FI)
WEEE Category	4. Large Equipment (Any External Dimension More Than 50 cm)

Categories

Drives → Low Voltage AC Drives → Industrial Drives → ACS880 drive modules → ACS880-14 - Regenerative single drive module

