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PRODUCT-DETAILS

## ACS880-14-650A-3

LV AC industrial regenerative single drive module, IEC: Pn 355 kW, 650 A, 400 V, NA V (ACS880-14-650A-3)



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### General Information

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Global Commercial Alias	ACS880-14-650A-3
Product ID	3AXD50000042310
ABB Type Designation	ACS880-14-650A-3
EAN	6438177548041
Catalog Description	LV AC industrial regenerative single drive module, IEC: Pn 355 kW, 650 A, 400 V, NA V (ACS880-14-650A-3)
Long Description	<p>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.</p> <p>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.</p>

Ordering

Customs Tariff Number	85044085
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	ACS880-14-650A-3 PN: 355 kW, IN: 650 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	365 kg 805 lb
Product Net Depth / Length	512 mm 20.157 in
Product Net Height	1741 mm 68.543 in
Product Net Width	713 mm 28.071 in
Package Level 1 Depth / Length	1077.0 mm 42.402 in
Package Level 1 Height	2050.0 mm 80.709 in
Package Level 1 Width	650.0 mm 25.591 in
Package Level 1 Units	1 case

Technical

Number of Phases	3-phase
Degree of Protection	IP20
Enclosure Type NEMA	Open Type
Altitude	4000 m
	5 ... 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)	47.5 ... 63 Hz
Frame Size	R11
Input Voltage ( $U_{in}$ )	380 ... 415 V
Mounting Type	Module
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, Normal Use ( $I_N$ )	650 A
Output Current, Light-Overload Use ( $I_{LD}$ )	618 A
Output Current, Heavy-Duty Use ( $I_{HD}$ )	505 A
Output Power, Normal Use ( $P_N$ )	355 kW
Output Power, Light-Overload Use ( $P_{LD}$ )	355 kW
Output Power, Heavy-Duty Use ( $P_{HD}$ )	250 kW
	11039 W
Apparent Power Output	450 kV·A
Efficiency Level	IE2
Standby Loss	207 W
Complete Drive Module Efficiency (IEC61800-9-2)	

Operating Point Frequency / Current	Absolute Loss	Efficiency	Relative Loss
0/25 %	2051 W	92.4 %	0.5 %
0/50 %	2994 W	94.3 %	0.7 %
0/100 %	5498 W	94.7 %	1.2 %
50/25 %	2297 W	95.6 %	0.5 %
50/50 %	3561 W	96.5 %	0.8 %
50/100 %	7329 W	96.4 %	1.6 %
90/50 %	4787 W	97.4 %	1.1 %
90/100 %	11039 W	97.0 %	2.5 %

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).

<b>Technical UL</b>	
Output Current, Heavy-Duty Use (UL)	NA A
Output Power, Heavy-Duty Use (UL)	NA Hp

<b>Certificates and Declarations</b>	
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

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

<b>External Classifications and Standards</b>	
ETIM 9	EC001857 - Frequency converter =< 1 kV
UNSPSC	39122001

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## Categories

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

