

PRODUCT-DETAILS

ACS880-34-650A-3

LV AC industrial ultra-low harmonic single drive module, IEC: Pn 355 kW, 650 A, 400 V (ACS880-34-650A-3)



General Information

Global Commercial Alias	ACS880-34-650A-3
Product ID	3AXD50000199990
ABB Type Designation	ACS880-34-650A-3
EAN	6438177548461
Catalog Description	LV AC industrial ultra-low harmonic single drive module, IEC: Pn 355 kW, 650 A, 400 V (ACS880-34-650A-3)

The ACS880-34 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 ACS880-34 ultra-low harmonic drive module produces exceptionally low harmonic content and exceeds the requirements set by low harmonic requirements. 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. These modules are specifically designed for machine builders and systems integrators. Bookshelf 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	ACS880-34-650A-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

Container Information

Gross Volume	0.636 m³
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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})	505 A
Output Current, Light-Overload Use (I_{LD})	618 A
Output Current, Normal Use (I_n)	650 A
Output Power, Heavy-Duty Use (P_{HD})	250 kW
Output Power, Light-Overload Use (P_{LD})	355 kW
Output Power, Normal Use (P_n)	355 kW
Apparent Power Output	450 kV·A
Efficiency Level	IE2
Standby Loss	207 W
Complete Drive Module Efficiency (61800-9-2)	

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 low-harmonic drives are exempt from the EU ecodesign requirements (Regulation EU/2019/1781, §2.3.d).

Additional Information

Product Main Type	ACS880-34
Product Name	Frequency converter

Classifications

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

Environmental

SCIP	a2cc0b4c-ef99-487b-ac8b-882c86163ef4 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 → ACS880-34 - Ultra-low harmonic single drive module

