



 PRODUCT-DETAILS

ACS880-34-460A-5

LV AC industrial ultra-low harmonic single drive module, IEC: Pn 315 kW, 460 A, 500 V, UL: Pld 350 Hp, 450 A, 480 V (ACS880-34-460A-5)



General Information

Global Commercial Alias	ACS880-34-460A-5
Product ID	3AXD50000200047
ABB Type Designation	ACS880-34-460A-5
EAN	6438177548522

Catalog Description	LV AC industrial ultra-low harmonic single drive module, IEC: Pn 315 kW, 460 A, 500 V, UL: Pld 350 Hp, 450 A, 480 V (ACS880-34-460A-5)
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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.

Long Description

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
HS Code	850440-- Electrical transformers, static converters (for example, rectifiers) and inductors.- Static converters
Invoice Description	ACS880-34-460A-5 PN: 315 kW, IN: 460 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
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 carton

Technical

Number of Phases	3
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 ... 500 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})	414 A
Output Current, Light-Overload Use (I_{LD})	450 A
Output Current, Normal Use (I_n)	460 A
Output Power, Heavy-Duty Use (P_{HD})	250 kW
Output Power, Light-Overload Use (P_{LD})	315 kW
Output Power, Normal Use (P_n)	315 kW
Apparent Power Output	398 kV·A
Efficiency Level	IE2
Standby Loss	243 W
Complete Drive Module Efficiency (61800-9-2)	

Operating Point Frequency / Current	Absolute Loss	Efficiency	Relative Loss
0/25 %	1483 W	93.7 %	0.4 %
0/50 %	2061 W	95.5 %	0.5 %
0/100 %	3512 W	96.1 %	0.9 %
50/25 %	1633 W	96.4 %	0.4 %
50/50 %	2389 W	97.3 %	0.6 %
50/100 %	4528 W	97.5 %	1.1 %
90/50 %	3080 W	98.1 %	0.8 %
90/100 %	6588 W	97.9 %	1.7 %

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).

Technical UL

Output Current, Heavy-Duty Use (UL)	414 A
Output Current, Light-Overload Use (UL)	450 A
Output Power, Heavy-Duty Use (UL)	350 Hp
Output Power, Light-	350 Hp

Overload Use (UL)

Classifications

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

Environmental

SCIP	c44fe560-7ab6-4f91-9cdb-6ff4cf7e4d81 Finland (FI)
WEEE Category	4. Large Equipment (Any External Dimension More Than 50 cm)

Additional Information

Product Name	Frequency converter
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Categories

Drives → Low Voltage AC Drives → Industrial Drives → ACS880 Drive Modules → ACS880-34 - Ultra-low harmonic single drive module

