



 PRODUCT-DETAILS

ACS880-01-293A-3

LV AC industrial wall-mounted single drive, IEC:
Pn 160 kW, 293 A, 400 V (ACS880-01-293A-3)



General Information

| | |
|-------------------------|------------------|
| Global Commercial Alias | ACS880-01-293A-3 |
| Product ID | 3AUA0000108034 |
| ABB Type Designation | ACS880-01-293A-3 |
| EAN | 6438177555056 |

| | |
|---------------------|---|
| Catalog Description | LV AC industrial wall-mounted single drive, IEC: Pn 160 kW, 293 A, 400 V (ACS880-01-293A-3) |
|---------------------|---|

The ACS880-01 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 ACS880-01 comes in one compact package for easy installation and commissioning. The drive can be installed on the wall as standard and in a cabinet as an option. The drive offering includes enclosure classes up to IP55, making it suitable for most environments and installations. ACS880-01 drives have all the essential features built-in. These features include as standard a choke for harmonic filtering as well as options like a brake chopper, EMC filter and communication protocol adapter, functional safety, external output filters and I/O extension modules.

Ordering

| | |
|-------------------------|---|
| Country of Origin | Finland (FI) |
| Customs Tariff Number | 85044086 |
| HS Code | 850440-- Electrical transformers, static converters (for example, rectifiers) and inductors.- Static converters |
| Invoice Description | ACS880-01-293A-3 PN: 160 kW, IN: 293 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 | 149.914 lb |
| Product Net Depth / Length | 15.197 in |
| Product Net Height | 37.992 in |
| Product Net Width | 11.811 in |
| Package Level 1 Depth / Length | 45.08 in |
| Package Level 1 Height | 25.75 in |
| Package Level 1 Width | 19.09 in |
| Package Level 1 Units | 1 case |

Technical

| | |
|---|---|
| Number of Phases | 3 |
| Degree of Protection | IP21 |
| Enclosure Type NEMA | Type1 |
| Altitude | 4000 m |
| | 5 ... 95 |
| Sound dB (A) | 68 dB(A) |
| Multiple Battery Information | Lithium Coin, CR2032, 220 mAh, 3 V, 2 pcs, 6 g |
| Frequency (f) | 47.5 ... 63 Hz |
| Frame Size | R8 |
| Input Voltage (U_{in}) | 380 ... 415 V |
| Mounting Type | Wall-mounted |
| Communication Protocol | PROFINET IO |
| Number of Hardware Interfaces | Industrial Ethernet 0 Other 4 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) | 293 A |
| Output Current, Light-Overload Use (I_{LD}) | 278 A |
| Output Current, Heavy- | 246 A |

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|---|----------|
| Duty Use (I_{HD}) | |
| Output Power, Normal Use (P_n) | 160 kW |
| Output Power, Light-Overload Use (P_{LD}) | 160 kW |
| Output Power, Heavy-Duty Use (P_{HD}) | 132 kW |
| Apparent Power Output | 203 kV·A |
| Efficiency Level | IE2 |
| Standby Loss | 52 W |
| Complete Drive Module Efficiency (61800-9-2) | |

| Operating Point Frequency / Current | Absolute Loss | Relative Loss | Efficiency |
|--|------------------|------------------|------------|
| 0 / 25 % | 921 W | 0.5 % | 92.3 % |
| 0 / 50 % | 1330 W | 0.7 % | 94.1 % |
| 0 / 100 % | 2200 W | 1.1 % | 95.0 % |
| 50 / 25 % | 994 W | 0.5 % | 95.9 % |
| 50 / 50 % | 1442 W | 0.7 % | 96.8 % |
| 50 / 100 % | 2637 W | 1.3 % | 97.1 % |
| 90 / 50 % | 1741 W | 0.9 % | 97.9 % |
| 90 / 100 % | 3630 W | 1.8 % | 97.7 % |

Temperature Rating Maximum 40 °C

External Classifications and Standards

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

Environmental

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|---------------|---|
| SCIP | f10203a7-c2ae-4d29-a475-9eef0fd6d938 Finland (FI) |
| WEEE Category | 4. Large Equipment (Any External Dimension More Than 50 cm) |

Additional Information

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|--------------|---------------------|
| Product Name | Frequency converter |
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Categories

Drives → Low Voltage AC Drives → Industrial Drives → ACS880 Single Drives → ACS880-01 - Wall-mounted single drive

