



 PRODUCT-DETAILS

ACS880-01-042A-7

LV AC industrial wall-mounted single drive, IEC:
Pn 37 kW, 42 A, 690 V, UL: Pld 50 Hp, 52 A, 575
V (ACS880-01-042A-7)



General Information

| | |
|-------------------------|------------------|
| Global Commercial Alias | ACS880-01-042A-7 |
| Product ID | 3AUA0000115102 |
| ABB Type Designation | ACS880-01-042A-7 |
| EAN | 6438177388579 |

| | |
|---------------------|---|
| Catalog Description | LV AC industrial wall-mounted single drive, IEC: Pn 37 kW, 42 A, 690 V, UL: Pld 50 Hp, 52 A, 575 V (ACS880-01-042A-7) |
|---------------------|---|

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 | ACS880-01-042A-7 PN: 37 kW, IN: 42 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 | 22.8 kg 50.265 lb |
| Product Net Depth / Length | 274 mm 10.787 in |
| Product Net Height | 732 mm 28.819 in |
| Product Net Width | 203 mm 7.992 in |
| Package Level 1 Depth / Length | 896 mm 35.276 in |
| Package Level 1 Height | 329 mm 12.953 in |
| Package Level 1 Width | 293 mm 11.535 in |
| Package Level 1 Units | 1 carton |

Technical

| | |
|----------------------------------|---|
| Number of Phases | 3 |
| Degree of Protection | IP21 |
| Enclosure Type NEMA | Type1 |
| Altitude | 4000 m 5 ... 95 |
| Sound dB (A) | 64 dB(A) |
| Multiple Battery Information | Lithium Coin, CR2032, 220 mAh, 3 V, 2 pcs, 6 g |
| Frequency (f) | 47.5 ... 63 Hz |
| Frame Size | R5 |
| Input Voltage (U _{in}) | 525 ... 690 V |
| Mounting Type | Wall-mounted |
| Communication Protocol | CAN DeviceNet EtherNet/IP MODBUS Other Bus Systems PROFIsafe PROFIBUS 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, Heavy-Duty Use (I_{HD}) | 35 A |
| Output Current, Light-Overload Use (I_{LD}) | 40 A |
| Output Current, Normal Use (I_n) | 42 A |
| Output Power, Heavy-Duty Use (P_{HD}) | 30 kW |
| Output Power, Light-Overload Use (P_{LD}) | 37 kW |
| Output Power, Normal Use (P_n) | 37 kW |
| Apparent Power Output | 50 kV·A |
| Efficiency Level | IE2 |
| Standby Loss | 33 W |
| Complete Drive Module Efficiency (61800-9-2) | |

| Operating Point Frequency / Current | Absolute Loss | Relative Loss | Efficiency |
|-------------------------------------|---------------|---------------|------------|
| 0 / 25 % | 184 W | 0.4 % | 93.5 % |
| 0 / 50 % | 237 W | 0.5 % | 95.6 % |
| 0 / 100 % | 355 W | 0.7 % | 96.7 % |
| 50 / 25 % | 194 W | 0.4 % | 96.6 % |
| 50 / 50 % | 258 W | 0.5 % | 97.6 % |
| 50 / 100 % | 413 W | 0.8 % | 98.1 % |
| 90 / 50 % | 295 W | 0.6 % | 98.5 % |
| 90 / 100 % | 524 W | 1.0 % | 98.7 % |

Temperature Rating Maximum 40 °C

Technical UL

| | |
|---|-------|
| Output Current, Heavy-Duty Use (UL) | 41 A |
| Output Current, Light-Overload Use (UL) | 52 A |
| Output Current, Normal Use (UL) | - A |
| Output Power, Heavy-Duty Use (UL) | 40 Hp |
| Output Power, Light-Overload Use (UL) | 50 Hp |

Classifications

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

Environmental

| | |
|---------------|---|
| SCIP | fcd9747c-1d9a-40e6-bf0a-4ad2ef20fdb8 Finland (FI) |
| WEEE Category | 4. Large Equipment (Any External Dimension More Than 50 cm) |

Additional Information

Product Name

Frequency converter

Categories

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

