

## PRODUCT-DETAILS

# ACS880-01-07A2-4

## ACS880-01-07A2-4 PN: 4.0 kW, IN: 7.2 A



### General Information

|                         |  |
|-------------------------|--|
| Global Commercial Alias | ACS880-01-07A2-4                       |
| Product ID              | 3AXD50000035839                        |
| ABB Type Designation    | ACS880-01-07A2-4                       |
| Catalog Description     | ACS880-01-07A2-4 PN: 4.0 kW, IN: 7.2 A |

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                               |
| Invoice Description   | ACS880-01-07A2-4 PN: 4.0 kW, IN: 7.2 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 | 14.327 dm³ |
|--------------|------------|

Dimensions

|                                |          |
|--------------------------------|----------|
| Product Net Weight             | 7 kg     |
| Product Net Depth / Length     | 226 mm   |
| Product Net Height             | 409 mm   |
| Product Net Width              | 155 mm   |
| Package Level 1 Depth / Length | 574 mm   |
| Package Level 1 Height         | 281 mm   |
| Package Level 1 Width          | 256 mm   |
| Package Level 1 Units          | 1 carton |

Technical

|                                  |   |
|----------------------------------|---|
| Number of Phases                 | 3   |
| Degree of Protection             | IP21  |
| Enclosure Type NEMA              | Type1   |
| Altitude                         | 4000 m  |
| Sound dB (A)                     | 50 dB(A)  |
| Multiple Battery Information     | Lithium Coin, CR2032, 220 mAh, 3 V, 2 pcs, 6 g  |
| Frequency (f)                    | 47.5 ... 63 Hz  |
| Frame Size                       | R1  |
| Input Voltage (U <sub>in</sub> ) | 380 ... 480 V   |
| Mounting Type                    | Wall-mounted  |
| Communication Protocol           | CAN<br>DeviceNet<br>EtherNet/IP<br>MODBUS<br>Other Bus Systems<br>PROFIsafe<br>PROFIBUS<br>PROFINET IO                    |
| Number of Hardware Interfaces    | Industrial Ethernet 0<br>Other 4<br>Parallel 0<br>PROFINET 0<br>RS-232 0<br>RS-422 0<br>RS-485 1<br>Serial TTY 0<br>USB 1 |
| Includes                         | Control unit<br>PC connection   |
| Analog Inputs                    | 2   |

|   |          |
|---|----------|
| Analog Outputs                                  | 2        |
| Number of Digital In/Outputs                    | 6 / 2    |
| Output Current, Heavy-Duty Use ( $I_{HD}$ )     | 4.9 A    |
| Output Current, Light-Overload Use ( $I_{LD}$ ) | 7.2 A    |
| Output Current, Normal Use ( $I_n$ )            | 7.2 A    |
| Output Power, Heavy-Duty Use ( $P_{HD}$ )       | 2.2 kW   |
| Output Power, Light-Overload Use ( $P_{LD}$ )   | 4 kW     |
| Output Power, Normal Use ( $P_n$ )              | 4 kW     |
| Apparent Power Output                           | 5.5 kV·A |
| Efficiency Level                                | IE2      |
| Standby Loss                                    | 24 W     |
| Complete Drive Module Efficiency (61800-9-2)    |          |

| Operating Point<br>Frequency / Current | Absolute<br>Loss | Relative<br>Loss | Efficiency |
|--|------------------|------------------|------------|
| 0 / 25 %                               | 52 W             | 1.0 %            | 84.7 %     |
| 0 / 50 %                               | 61 W             | 1.1 %            | 90.2 %     |
| 0 / 100 %                              | 81 W             | 1.5 %            | 92.7 %     |
| 50 / 25 %                              | 54 W             | 1.0 %            | 91.7 %     |
| 50 / 50 %                              | 65 W             | 1.2 %            | 94.7 %     |
| 50 / 100 %                             | 91 W             | 1.7 %            | 96.0 %     |
| 90 / 50 %                              | 71 W             | 1.3 %            | 96.7 %     |
| 90 / 100 %                             | 105 W            | 1.9 %            | 97.4 %     |

Temperature RatingMaximum 40 °C

Additional Information

|                   |                     |
|-------------------|---------------------|
| Product Main Type | ACS880-01           |
| Product Name      | Frequency converter |

Classifications

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

Environmental

|               |  |
|---------------|--|
| WEEE Category | 5. Small Equipment (No External Dimension More Than 50 cm) |
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## Categories

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

