

## PRODUCT-DETAILS

# ACS880-01-032A-3

ACS880-01-032A-3 PN: 15.0 kW, IN: 32 A



## General Information

|                         |                                        |
|-------------------------|----------------------------------------|
| Global Commercial Alias | ACS880-01-032A-3                       |
| Product ID              | 3AUA0000107993                         |
| ABB Type Designation    | ACS880-01-032A-3                       |
| EAN                     | 6438177557388                          |
| Catalog Description     | ACS880-01-032A-3 PN: 15.0 kW, IN: 32 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)<br>Saudi Arabia (SA)      |
| Customs Tariff Number | 85044085                               |
| Invoice Description   | ACS880-01-032A-3 PN: 15.0 kW, IN: 32 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 | 21.324 dm <sup>3</sup> |
|--------------|------------------------|

## Dimensions

|                                |                      |
|--------------------------------|----------------------|
| Product Net Weight             | 10.8 kg<br>23.810 lb |
| Product Net Depth / Length     | 261 mm<br>10.276 in  |
| Product Net Height             | 475 mm               |
| Product Net Width              | 172 mm<br>6.772 in   |
| Package Level 1 Depth / Length | 634 mm               |
| Package Level 1 Height         | 316 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)                     | 60 dB(A)                                                                                                                  |
| Frequency (f)                    | 48 ... 63 Hz                                                                                                              |
| Frame Size                       | R3                                                                                                                        |
| Input Voltage (U <sub>in</sub> ) | 380 ... 415 V                                                                                                             |
| Mounting Type                    | Wall-mounted                                                                                                              |
| Communication Protocol           | CAN<br>DeviceNet<br>EtherNet/IP<br>LON<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                         | With control unit<br>Without optical interface<br>With PC connection                                                      |
| Analog Inputs                    | 2                                                                                                                         |
| Analog Outputs                   | 2                                                                                                                         |
| Number of Digital In/Outputs     | 6 / 2                                                                                                                     |
| Output Current, Heavy-           | 25 A                                                                                                                      |

|                                                 |         |
|-------------------------------------------------|---------|
| Duty Use ( $I_{HD}$ )                           |         |
| Output Current, Light-                          | 30 A    |
| Overload Use ( $I_{LD}$ )                       |         |
| Output Current, Normal                          | 32 A    |
| Use ( $I_n$ )                                   |         |
| Output Power, Heavy-                            | 11 kW   |
| Duty Use ( $P_{HD}$ )                           |         |
| Output Power, Light-                            | 15 kW   |
| Overload Use ( $P_{LD}$ )                       |         |
| Output Power, Normal                            | 15 kW   |
| Use ( $P_n$ )                                   |         |
| Apparent Power Output                           | 22 kV·A |
| Efficiency Level                                | IE2     |
| Standby Loss                                    | 24 W    |
| Complete Drive Module<br>Efficiency (61800-9-2) |         |

| Operating Point<br>Frequency / Current | Absolute<br>Loss | Relative<br>Loss | Efficiency |
|----------------------------------------|------------------|------------------|------------|
| 0 / 25 %                               | 143 W            | 0.6 %            | 89.1 %     |
| 0 / 50 %                               | 187 W            | 0.8 %            | 92.4 %     |
| 0 / 100 %                              | 299 W            | 1.3 %            | 93.8 %     |
| 50 / 25 %                              | 149 W            | 0.7 %            | 94.3 %     |
| 50 / 50 %                              | 201 W            | 0.9 %            | 95.9 %     |
| 50 / 100 %                             | 340 W            | 1.5 %            | 96.5 %     |
| 90 / 50 %                              | 221 W            | 1.0 %            | 97.5 %     |
| 90 / 100 %                             | 400 W            | 1.8 %            | 97.7 %     |

Temperature Rating Maximum 40 °C

## Additional Information

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

## Classifications

|                |                                        |
|----------------|----------------------------------------|
| Product Series | ACS880                                 |
| ETIM 7         | EC001857 - Frequency converter =< 1 kV |
| UNSPSC         | 39122001                               |

## Environmental

|               |                                                            |
|---------------|------------------------------------------------------------|
| SCIP          | 4a865ed8-4e1d-4b7e-97ee-fa8403ff64a9 Finland (FI)          |
| WEEE Category | 5. Small Equipment (No External Dimension More Than 50 cm) |

## Categories

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

