

## PRODUCT-DETAILS

# ACS580-01-246A-4

ACS580-01-246A-4 PN: 132 kW, IN: 246 A



## General Information

|                         |                                        |
|-------------------------|----------------------------------------|
| Global Commercial Alias | ACS580-01-246A-4                       |
| Product ID              | 3AUA0000080507                         |
| ABB Type Designation    | ACS580-01-246A-4                       |
| EAN                     | 6438177305637                          |
| Catalog Description     | ACS580-01-246A-4 PN: 132 kW, IN: 246 A |

The ACS580-01 is plug-in ready to control your compressors, conveyors, pumps, extruders, centrifuges, mixers, fans and many other variable and constant torque applications, in a variety of light industries, including food and beverage, plastic, textile, material handling, and agriculture.

All essential features are built-in as standard, simplifying drive selection, and making additional hardware unnecessary. Versatile and straightforward settings menu and assistants enable fast setup, commissioning, use and maintenance, while rugged and robust design makes it a good fit for various environments. With the ACS580 drives you can easily take full control of your processes to comprehensively manage your plant. The wall-mounted ACS580-01 comes in IP21 enclosure as standard. Also, IP55 and flange mounting units are available.

## Ordering

|                        |                                        |
|------------------------|----------------------------------------|
| Country of Origin      | Finland (FI)                           |
| Customs Tariff Number  | 85044084                               |
| Invoice Description    | ACS580-01-246A-4 PN: 132 kW, IN: 246 A |
| Made To Order          | No                                     |
| Minimum Order Quantity | 1 piece                                |
| Order Multiple         | 1 piece                                |

|                         |       |
|-------------------------|-------|
| Quote Only              | No    |
| Selling Unit of Measure | piece |

## Dimensions

|                                |          |
|--------------------------------|----------|
| Product Net Weight             | 69 kg    |
| Product Net Height             | 965 mm   |
| Product Net Length             | 393 mm   |
| Product Net Width              | 300 mm   |
| Package Level 1 Depth / Length | 1145 mm  |
| Package Level 1 Height         | 630 mm   |
| Package Level 1 Width          | 485 mm   |
| Package Level 1 Units          | 1 carton |

## Technical

|                                    |                                                                                                                           |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Number of Phases                   | 3                                                                                                                         |
| Degree of Protection               | IP21                                                                                                                      |
| Enclosure Type NEMA                | Type1                                                                                                                     |
| Altitude                           | 1000 m                                                                                                                    |
| Sound dB (A)                       | 65 dB(A)                                                                                                                  |
| Frequency (f)                      | 50/60 Hz                                                                                                                  |
| Input Voltage (U <sub>in</sub> )   | 380 ... 480 V                                                                                                             |
| Mounting Type                      | Wall-mounted                                                                                                              |
| Communication Protocol             | MODBUS<br>DeviceNet<br>PROFIBUS<br>CAN<br>EtherNet/IP<br>PROFINET IO<br>TCP/IP<br>Other Bus Systems                       |
| Number of Hardware Interfaces      | Industrial Ethernet 0<br>PROFINET 0<br>RS-232 0<br>RS-422 0<br>RS-485 1<br>Serial TTY 0<br>USB 1<br>Parallel 2<br>Other 2 |
| Includes                           | With control unit<br>Without optical interface<br>With PC connection                                                      |
| Analog Inputs                      | 2                                                                                                                         |
| Analog Outputs                     | 2                                                                                                                         |
| Number of Digital In/Outputs       | 6/3                                                                                                                       |
| Output Current, Heavy-Duty Use     | 206 A                                                                                                                     |
| Output Current, Light-Overload Use | 234 A                                                                                                                     |
| Output Current, Normal Use         | 246 A                                                                                                                     |
| Output Power, Heavy-Duty Use       | 110 kW                                                                                                                    |
| Output Power, Light-Overload Use   | 132 kW                                                                                                                    |
| Output Power, Normal Use           | 132 kW                                                                                                                    |
| Apparent Power Output              | 170 kV-A                                                                                                                  |

|                        |      |
|------------------------|------|
| Efficiency Level       | IE2  |
| Standby Loss           | 47 W |
| Complete Drive Module  |      |
| Efficiency (61800-9-2) |      |

| Operating Point<br>Frequency / Current | Absolute<br>Loss | Relative<br>Loss | Efficiency |
|----------------------------------------|------------------|------------------|------------|
| 0 / 25 %                               | 814 W            | 0.5 %            | 91.9 %     |
| 0 / 50 %                               | 1125 W           | 0.7 %            | 94.1 %     |
| 0 / 100 %                              | 2027 W           | 1.2 %            | 94.6 %     |
| 50 / 25 %                              | 892 W            | 0.5 %            | 95.6 %     |
| 50 / 50 %                              | 1279 W           | 0.8 %            | 96.7 %     |
| 50 / 100 %                             | 2379 W           | 1.4 %            | 96.9 %     |
| 90 / 50 %                              | 1513 W           | 0.9 %            | 97.8 %     |
| 90 / 100 %                             | 3126 W           | 1.8 %            | 97.7 %     |

|                    |               |
|--------------------|---------------|
| Temperature Rating | Maximum 40 °C |
|--------------------|---------------|

|                               |                     |
|-------------------------------|---------------------|
| <b>Additional Information</b> |                     |
| Product Main Type             | ACS580-01           |
| Product Name                  | Frequency converter |

|                        |                                        |
|------------------------|----------------------------------------|
| <b>Classifications</b> |                                        |
| ETIM 7                 | EC001857 - Frequency converter =< 1 kV |
| UNSPSC                 | 39122001                               |

|                      |                                                             |
|----------------------|-------------------------------------------------------------|
| <b>Environmental</b> |                                                             |
| SCIP                 | 392bf175-c6df-4719-8b82-cdb09cfcad61 Finland (FI)           |
| WEEE Category        | 4. Large Equipment (Any External Dimension More Than 50 cm) |

|                                                                                          |  |
|------------------------------------------------------------------------------------------|--|
| <b>Categories</b>                                                                        |  |
| Drives → Low voltage AC drives → General purpose drives → ACS580-01 - Wall-mounted drive |  |



