

## PRODUCT-DETAILS

# ACS580-01-039A-4

ACS580-01-039A-4 PN: 18.5 kW, IN: 38 A



## General Information

|                         |                                        |
|-------------------------|----------------------------------------|
| Global Commercial Alias | ACS580-01-039A-4                       |
| Product ID              | 3AXD50000038962                        |
| ABB Type Designation    | ACS580-01-039A-4                       |
| EAN                     | 6438177459279                          |
| Catalog Description     | ACS580-01-039A-4 PN: 18.5 kW, IN: 38 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.

### Long Description

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      | Romania (RO)<br>Finland (FI)<br>China (CN) |
| Customs Tariff Number  | 85044084                                   |
| Invoice Description    | ACS580-01-039A-4 PN: 18.5 kW, IN: 38 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             | 11.8 kg  |
| Product Net Height             | 490 mm   |
| Product Net Length             | 229 mm   |
| Product Net Width              | 203 mm   |
| Package Level 1 Depth / Length | 295 mm   |
| Package Level 1 Height         | 390 mm   |
| Package Level 1 Width          | 600 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)                       | 76 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     | 31.6 A                                                                                                                    |
| Output Current, Light-Overload Use | 36.1 A                                                                                                                    |
| Output Current, Normal Use         | 38.0 A                                                                                                                    |
| Output Power, Heavy-Duty Use       | 15.0 kW                                                                                                                   |
| Output Power, Light-Overload Use   | 18.5 kW                                                                                                                   |
| Output Power, Normal Use           | 18.5 kW                                                                                                                   |

|                                                 |         |
|-------------------------------------------------|---------|
| Apparent Power Output                           | 26 kV·A |
| Efficiency Level                                | IE2     |
| Standby Loss                                    | 16 W    |
| Complete Drive Module<br>Efficiency (61800-9-2) |         |

| Operating Point<br>Frequency / Current | Absolute<br>Loss | Relative<br>Loss | Efficiency |
|----------------------------------------|------------------|------------------|------------|
| 0 / 25 %                               | 162 W            | 0.6 %            | 89.6 %     |
| 0 / 50 %                               | 207 W            | 0.8 %            | 92.8 %     |
| 0 / 100 %                              | 359 W            | 1.4 %            | 93.7 %     |
| 50 / 25 %                              | 174 W            | 0.7 %            | 94.3 %     |
| 50 / 50 %                              | 232 W            | 0.9 %            | 96.0 %     |
| 50 / 100 %                             | 414 W            | 1.6 %            | 96.4 %     |
| 90 / 50 %                              | 260 W            | 1.0 %            | 97.5 %     |
| 90 / 100 %                             | 517 W            | 2.0 %            | 97.5 %     |

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

## Additional Information

|                   |                     |
|-------------------|---------------------|
| Product Main Type | ACS580-01           |
| Product Name      | Frequency converter |

## Classifications

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

## Environmental

|               |                                                            |
|---------------|------------------------------------------------------------|
| SCIP          | 8e1cd225-4cd2-4db1-8a7b-419a51ce1ae3 Finland (FI)          |
| WEEE Category | 5. Small Equipment (No External Dimension More Than 50 cm) |

## Categories

Drives → Low voltage AC drives → General purpose drives → ACS580-01 - Wall-mounted drive



