

## PRODUCT-DETAILS

# ACQ580-01-039A-4

ACQ580-01-039A-4 PN: 18.5 kW, IN: 38 A



## General Information

|                         |                                        |
|-------------------------|----------------------------------------|
| Global Commercial Alias | ACQ580-01-039A-4                       |
| Product ID              | 3AXD50000039030                        |
| ABB Type Designation    | ACQ580-01-039A-4                       |
| EAN                     | 6438177459750                          |
| Catalog Description     | ACQ580-01-039A-4 PN: 18.5 kW, IN: 38 A |

The ACQ580-01 drives deliver innovative pump features for the water and wastewater industry, securing energy efficient flow of water and wastewater in your pumping solutions. This robust and compact wall-mounted drive has built-in pump application functionality such as sensorless flow calculation, multipump control, level control, soft pipe fill, dry run protection, quick ramps and a solution for keeping the impeller of the pump clean.

### Long Description

Usability is further enhanced with the intuitive Hand-Off-Auto control panel, the PC tool Drive composer and an optional Bluetooth® control panel. The built-in energy calculator visualizes the energy savings achieved with the use of the drive. The ACQ580-01 variant comes in IP21 enclosure as standard and can be installed on the wall. Also, IP55 and flange mounting units are available.

## Complete Drive Module 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 %     |

## Ordering

|                              |                 |
|------------------------------|-----------------|
| Customs Tariff Number        | 85044084        |
| EAN                          | 6438177459750   |
| Replaced Product ID<br>(OLD) | 3AXD50000034597 |
| Quote Only                   | No              |
| Made To Order                | Yes             |
| Selling Unit of Measure      | piece           |
| Minimum Order Quantity       | 1 piece         |
| Order Multiple               | 1 piece         |

## Container Information

|              |                        |
|--------------|------------------------|
| Gross Volume | 22.779 dm <sup>3</sup> |
|--------------|------------------------|

## Dimensions

|                    |         |
|--------------------|---------|
| Product Net Height | 490 mm  |
| Product Net Length | 229 mm  |
| Product Net Weight | 11.8 kg |
| Product Net Width  | 203 mm  |

## Technical

|                                  |                                                                                                            |
|----------------------------------|------------------------------------------------------------------------------------------------------------|
| Frequency (f)                    | 50/60 Hz                                                                                                   |
| Input Voltage (U <sub>in</sub> ) | 380 ... 480 V                                                                                              |
| Mounting Type                    | Wall-mounted                                                                                               |
| Number of Phases                 | 3                                                                                                          |
| Communication Protocol           | MODBUS<br>LON<br>DeviceNet<br>PROFIBUS<br>CAN<br>EtherNet/IP<br>PROFINET IO<br>TCP/IP<br>Other Bus Systems |

## Additional Information

|                   |                     |
|-------------------|---------------------|
| Product Main Type | ACQ580-01           |
| Product Name      | Frequency converter |

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## Classifications

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ETIM 7

EC001857 - Frequency converter =< 1 kV

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## Categories

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Drives → Low Voltage AC Drives → Industry-Specific Drives → Drives for water → ACQ580-01 - Wall-mounted drive for water and wastewater

