

## PRODUCT-DETAILS

# ACQ531-01-039A-4

## ACQ531-01-039A-4 PN: 18.5kW, IN: 39A



### General Information

|                         |                                      |
|-------------------------|--------------------------------------|
| Global Commercial Alias | ACQ531-01-039A-4                     |
| Product ID              | 3ABD00046384                         |
| ABB Type Designation    | ACQ531-01-039A-4                     |
| Catalog Description     | ACQ531-01-039A-4 PN: 18.5kW, IN: 39A |

### Long Description

The ACQ531-01 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 simple pump application functionality. Usability is further enhanced with the optional 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 ACQ531-01 variant comes in an IP20 enclosure as standard and can be installed on the wall.

### Ordering

|                        |                                      |
|------------------------|--------------------------------------|
| Country of Origin      | China (CN)                           |
| Customs Tariff Number  | 85044099                             |
| Invoice Description    | ACQ531-01-039A-4 PN: 18.5kW, IN: 39A |
| 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             | 12 kg    |
| Product Net Depth / Length     | 228 mm   |
| Product Net Height             | 490 mm   |
| Product Net Width              | 203 mm   |
| Package Level 1 Depth / Length | 610 mm   |
| Package Level 1 Height         | 425 mm   |
| Package Level 1 Width          | 290 mm   |
| Package Level 1 Units          | 1 carton |

|   |                  |
|---|------------------|
| Technical                                       |                  |
| Number of Phases                                | 3                |
| Degree of Protection                            | IP20             |
| Enclosure Type NEMA                             | Open Type        |
| Frequency (f)                                   | 47.5 ... 63 Hz   |
| Frame Size                                      | R3               |
| Input Voltage ( $U_{in}$ )                      | 380 ... 480 V    |
| Mounting Type                                   | Module_NO UNIT\$ |
| Output Current, Light-Overload Use ( $I_{LD}$ ) | 36 A             |
| Output Current, Normal Use ( $I_n$ )            | 39 A             |
| Output Power, Light-Overload Use ( $P_{LD}$ )   | 18.5 kW          |
| Output Power, Normal Use ( $P_n$ )              | 18.5 kW          |
| Apparent Power Output                           | 26.0 kV·A        |
| Efficiency Level                                | IE2              |
| Standby Loss                                    | 16 W             |
| Complete Drive Module Efficiency (61800-9-2)    |                  |

| Operating Point<br>Frequency / Current | Absolute<br>Loss | Relative<br>Loss | Efficiency |
|--|------------------|------------------|------------|
| 0 / 25 %                               | 163 W            | 0.6 %            | 89.6 %     |
| 0 / 50 %                               | 210 W            | 0.8 %            | 92.8 %     |
| 0 / 100 %                              | 368 W            | 1.4 %            | 93.6 %     |
| 50 / 25 %                              | 176 W            | 0.7 %            | 94.3 %     |
| 50 / 50 %                              | 236 W            | 0.9 %            | 96 %       |
| 50 / 100 %                             | 426 W            | 1.6 %            | 96.3 %     |
| 90 / 50 %                              | 264 W            | 1 %              | 97.5 %     |
| 90 / 100 %                             | 525 W            | 2 %              | 97.5 %     |

Temperature Rating

Maximum 40 °C

|                        |  |
|------------------------|--|
| Additional Information |  |
| Product Name           | Frequency Converter  |
| Classifications        |  |
| UNSPSC                 | 39122001   |
| Environmental          |  |
| WEEE Category          | 5. Small Equipment (No External Dimension More Than 50 cm) |

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|--|
| Categories   |
| Drives → Low Voltage AC Drives → Industry-Specific Drives → Drives for water → ACQ531-01 - Wall-mounted drive for water and wastewater |

