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 PRODUCT-DETAILS

## ACS580-01-039A-4+B056

LV AC general purpose wall-mounted drive,  
IEC: Pn 18.5 kW, 38 A, 400 V (ACS580-01-039A-4+B056)




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### General Information

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| <b>Global Commercial Alias:</b> | ACS580-01-039A-4+B056  |
| <b>Product ID:</b>              | 3AXD50000038979  |
| <b>ABB Type Designation:</b>    | ACS580-01-039A-4+B056  |
| <b>EAN:</b>                     | 6438177459392  |
| <b>Catalog Description:</b>     | LV AC general purpose wall-mounted drive, IEC: Pn 18.5 kW, 38 A, 400 V (ACS580-01-039A-4+B056)   |
| <b>Long Description:</b>        | 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. |
| <b>Display Name:</b>            | ACS580-01-039A-4+B056  |

## Ordering

|                                 |  |
|---------------------------------|--|
| <b>Customs Tariff Number:</b>   | 850440   |
| <b>HS Code:</b>                 | 850440 -- ELECTRICAL MACHINERY AND EQUIPMENT AND PARTS THEREOF; SOUND RECORDERS AND REPRODUCERS, TELEVISION IMAGE AND SOUND RECORDERS AND REPRODUCERS, AND PARTS AND ACCESSORIES OF SUCH ARTICLES;Electrical transformers, static converters (for example, rectifiers) and inductors;Static converters |
| <b>Invoice Description:</b>     | ACS580-01-039A-4+B056 PN: 18.5 kW, IN: 38 A  |
| <b>Made To Order:</b>           | Yes  |
| <b>Minimum Order Quantity:</b>  | 1 piece  |
| <b>Order Multiple:</b>          | 1 piece  |
| <b>Quote Only:</b>              | No   |
| <b>Selling Unit of Measure:</b> | piece  |

## Dimensions

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|--|------------------------|
| <b>Product Net Weight:</b>             | 13 kg<br>28.660 lb     |
| <b>Product Net Depth / Length:</b>     | 237.00 mm<br>9.331 in  |
| <b>Product Net Height:</b>             | 490.00 mm<br>19.291 in |
| <b>Product Net Width:</b>              | 206.00 mm<br>8.110 in  |
| <b>Package Level 1 Depth / Length:</b> | 295.00 mm<br>11.614 in |
| <b>Package Level 1 Height:</b>         | 390.00 mm<br>15.354 in |
| <b>Package Level 1 Width:</b>          | 600.00 mm<br>23.622 in |
| <b>Package Level 1 Units:</b>          | carton 1 piece         |

## Technical

| Operating Point<br>Frequency / Current | Absolute<br>Loss | Efficiency | Relative<br>Loss |
|--|------------------|------------|------------------|
| 0/25 %                                 | 167 W            | 89.3 %     | 0.6 %            |
| 0/50 %                                 | 213 W            | 92.7 %     | 0.8 %            |
| 0/100 %                                | 365 W            | 93.6 %     | 1.4 %            |
| 50/25 %                                | 180 W            | 94.2 %     | 0.7 %            |
| 50/50 %                                | 238 W            | 95.9 %     | 0.9 %            |
| 50/100 %                               | 420 W            | 96.4 %     | 1.6 %            |
| 90/50 %                                | 266 W            | 97.4 %     | 1.0 %            |
| 90/100 %                               | 523 W            | 97.5 %     | 2.0 %            |

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| <b>Number of Phases:</b>                                    | 3-phase   |
| <b>Degree of Protection:</b>                                | IP55  |
| <b>Enclosure Type NEMA:</b>                                 | Type12  |
| <b>Altitude:</b>  | 1000 m  |
| <b>Operating Humidity (RH<sub>amb</sub>):</b>               | 95  |
| <b>Sound dB (A):</b>  | 76 dB(A)  |
| <b>Multiple Battery Information:</b>                        | Lithium Coin, CR2032, 220 mAh, 3 V, 1 pc, 3 g   |
| <b>Frequency (f):</b>                                       | 47.5 ... 63 Hz  |
| <b>Frame Size:</b>  | R3  |
| <b>Input Voltage (U<sub>in</sub>):</b>                      | 380 ... 480 V   |
| <b>Mounting Type:</b>                                       | Wall-mounted  |
| <b>Communication Protocol:</b>                              | CAN<br>DeviceNet<br>EtherNet/IP<br>MODBUS<br>Other Bus Systems<br>PROFIBUS<br>PROFINET IO<br>TCP/IP                       |
| <b>Number of Hardware Interfaces:</b>                       | Industrial Ethernet 0<br>Other 2<br>Parallel 2<br>PROFINET 0<br>RS-232 0<br>RS-422 0<br>RS-485 1<br>Serial TTY 0<br>USB 1 |
| <b>Includes:</b>  | Control unit<br>PC connection   |
| <b>Analog Inputs:</b>                                       | 2   |
| <b>Analog Outputs:</b>                                      | 2   |
| <b>Number of Digital In/Outputs:</b>                        | 6 / 3   |
| <b>Output Current, Normal Use (I<sub>n</sub>):</b>          | 38 A  |
| <b>Output Current, Light-Overload Use (I<sub>LD</sub>):</b> | 36.1 A  |
| <b>Output Current, Heavy-Duty Use (I<sub>HD</sub>):</b>     | 31.6 A  |
| <b>Output Power, Normal Use (P<sub>n</sub>):</b>            | 18.5 kW   |
| <b>Output Power, Light-Overload Use (P<sub>LD</sub>):</b>   | 18.5 kW   |
| <b>Output Power, Heavy-Duty Use (P<sub>HD</sub>):</b>       | 15.0 kW   |
| <b>Power Consumption (@P<sub>cons</sub>):</b>               | 523 W   |
| <b>Apparent Power Output:</b>                               | 26 kV-A   |
| <b>Efficiency Level:</b>                                    | IE2   |
| <b>Standby Loss:</b>  | 16 W  |
| <b>Temperature Rating:</b>                                  | Maximum 50 °C<br>Minimum -15 °C   |

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### Certificates and Declarations

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| <b>Declaration of Conformity - CE:</b> | 3AXD10001818627  |
| <b>REACH Date:</b>                     | 20250905   |
| <b>REACH Declaration:</b>              | 9AKK107992A7060  |
| <b>REACH Information:</b>              | True - contains substances > 0.1 mass percentage                       |
| <b>RoHS Date:</b>                      | 20240508   |
| <b>RoHS Declaration:</b>               | 3AXD10001818627  |
| <b>RoHS Information:</b>               | Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019 |

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### Environmental

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|-----------------------|---|
| <b>SCIP:</b>          | 7ab39eb4-9330-424a-b7ff-fcf491eb4b83 Finland                |
| <b>WEEE Category:</b> | 4. Large Equipment (Any External Dimension More Than 50 cm) |

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### External Classifications and Standards

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| <b>ETIM 9:</b>  | EC001857 - Frequency converter =< 1 kV |
| <b>ETIM 10:</b> | EC001857 - Frequency converter =< 1 kV |
| <b>UNSPSC:</b>  | 39122001                               |

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### Categories

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Products > Drives > Low Voltage AC Drives > General Purpose Drives > ACS580-01 - Wall-mounted drive

