



## PRODUCT-DETAILS

## ACS380-042S-09A4-4

LV AC machinery drive module, IEC: Pn 4 kW, 9.4 A, 400 V, UL: Pld 5 Hp, 7.6 A, 480 V (ACS380-042S-09A4-4)



### General Information

|                                 |  |
|---------------------------------|--|
| <b>Global Commercial Alias:</b> | ACS380-042S-09A4-4   |
| <b>Product ID:</b>              | 3AXD50000031902  |
| <b>ABB Type Designation:</b>    | ACS380-042S-09A4-4   |
| <b>EAN:</b>                     | 6438177506775  |
| <b>Catalog Description:</b>     | LV AC machinery drive module, IEC: Pn 4 kW, 9.4 A, 400 V, UL: Pld 5 Hp, 7.6 A, 480 V (ACS380-042S-09A4-4)  |
| <b>Long Description:</b>        | The ACS380 machinery drive comes in several variants ensuring seamless integration into machines and connecting perfectly to automation systems. It's a great fit for industries such as food and beverage, material handling and textile. Typical applications include mixers, conveyors, EOT and tower cranes, extruders and textile machinery. With the integrated functional safety features, the ACS380 drive can be also part of the machine's safety system via PROFIsafe over PROFINET, ensuring the motor is safely stopped when required. In addition, the drive's software can be easily customized with adaptive programming to match any specific application requirements. |
| <b>Display Name:</b>            | ACS380-042S-09A4-4   |

## Ordering

|                                 |  |
|---------------------------------|--|
| <b>Customs Tariff Number:</b>   | 85044087   |
| <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>     | ACS380-042S-09A4-4 PN: 4 kW, IN: 9.4 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

|  |                     |
|--|---------------------|
| <b>Product Net Weight:</b>             | 1.40 kg<br>3.086 lb |
| <b>Product Net Depth / Length:</b>     | 176 mm<br>6.929 in  |
| <b>Product Net Height:</b>             | 223 mm<br>8.780 in  |
| <b>Product Net Width:</b>              | 70 mm<br>2.756 in   |
| <b>Package Level 1 Depth / Length:</b> | 282 mm<br>11.102 in |
| <b>Package Level 1 Height:</b>         | 273 mm<br>10.748 in |
| <b>Package Level 1 Width:</b>          | 148 mm<br>5.827 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 %                                 | 62 W             | 84.8 %     | 0.9 %            |
| 0/50 %                                 | 73 W             | 90.1 %     | 1.1 %            |
| 0/100 %                                | 105 W            | 92.2 %     | 1.6 %            |
| 50/25 %                                | 64 W             | 91.8 %     | 1.0 %            |
| 50/50 %                                | 80 W             | 94.6 %     | 1.2 %            |
| 50/100 %                               | 119 W            | 95.6 %     | 1.8 %            |
| 90/50 %                                | 90 W             | 96.5 %     | 1.4 %            |
| 90/100 %                               | 140 W            | 97.1 %     | 2.2 %            |

**Number of Phases:** 3-phase

|   |   |
|---|---|
| <b>Degree of Protection:</b>                                | IP20  |
| <b>Enclosure Type NEMA:</b>                                 | Open Type   |
| <b>Altitude:</b>  | 1000 m  |
| <b>Operating Humidity (RH<sub>amb</sub>):</b>               | 5 ... 95  |
| <b>Power Factor:</b>  | 0.98  |
| <b>Sound dB (A):</b>  | 63.10 dB(A)   |
| <b>Multiple Battery Information:</b>                        | No battery / cell included  |
| <b>Frequency (f):</b>                                       | 47.5 ... 63 Hz  |
| <b>Frame Size:</b>  | R1  |
| <b>Input Voltage (U<sub>in</sub>):</b>                      | 380 ... 480 V   |
| <b>Mounting Type:</b>                                       | Module  |
| <b>Communication Protocol:</b>                              | MODBUS<br>Other Bus Systems   |
| <b>Number of Hardware Interfaces:</b>                       | Industrial Ethernet 0<br>Other 3<br>Parallel 0<br>PROFINET 0<br>RS-232 0<br>RS-422 0<br>RS-485 1<br>Serial TTY 0<br>USB 0 |
| <b>Includes:</b>  | Control unit<br>PC connection   |
| <b>Analog Inputs:</b>                                       | 2   |
| <b>Analog Outputs:</b>                                      | 1   |
| <b>Number of Digital In/Outputs:</b>                        | 5 / 2   |
| <b>Output Current, Normal Use (I<sub>n</sub>):</b>          | 9.4 A   |
| <b>Output Current, Light-Overload Use (I<sub>LD</sub>):</b> | 8.9 A   |
| <b>Output Current, Heavy-Duty Use (I<sub>HD</sub>):</b>     | 7.2 A   |
| <b>Output Power, Normal Use (P<sub>n</sub>):</b>            | 4 kW  |
| <b>Output Power, Light-Overload Use (P<sub>LD</sub>):</b>   | 4.0 kW  |
| <b>Output Power, Heavy-Duty Use (P<sub>HD</sub>):</b>       | 3.0 kW  |
| <b>Power Consumption (@P<sub>cons</sub>):</b>               | 140 W   |
| <b>Apparent Power Output:</b>                               | 6.5 kV-A  |
| <b>Efficiency Level:</b>                                    | IE2   |
| <b>Standby Loss:</b>  | 15 W  |
| <b>Temperature Rating:</b>                                  | Maximum 50 °C   |

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## Technical UL

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|   |       |
|---|-------|
| <b>Output Current, Heavy-Duty Use (UL):</b>     | 6.0 A |
| <b>Output Current, Light-Overload Use (UL):</b> | 7.6 A |
| <b>Output Current, Normal Use (UL):</b>         | 7.6 A |

Output Power, Heavy-Duty Use (UL): 3 Hp

Output Power, Light-Overload Use (UL): 5 Hp

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## Certificates and Declarations

Declaration of Conformity - CE: 3AXD10000495941

REACH Date: 20250905

REACH Declaration: 9AKK107992A7060

REACH Information: True - contains substances > 0.1 mass percentage

RoHS Date: 20230303

RoHS Declaration: 3AXD10000495941

RoHS Information: Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019

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## Environmental

SCIP: df417ff4-f8a5-4aa8-b5b9-bb43623953af Finland

WEEE Category: 5. Small Equipment (No External Dimension More Than 50 cm)

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## External Classifications and Standards

ETIM 9: EC001857 - Frequency converter =< 1 kV

ETIM 10: EC001857 - Frequency converter =< 1 kV

UNSPSC: 39122001

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## Categories

Products > Drives > Low Voltage AC Drives > Machinery Drives > ACS380 - Machinery Drive

