



PRODUCT-DETAILS

ACS380-042S-25A0-4

LV AC machinery drive module, IEC: Pn 11 kW, 25.0 A, 400 V, UL: Pld 15 Hp, 21 A, 480 V (ACS380-042S-25A0-4)



| General Information      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Global Commercial Alias: | ACS380-042S-25A0-4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Product ID:              | 3AXD50000031905                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| ABB Type Designation:    | ACS380-042S-25A0-4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| EAN:                     | 6438177506805                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Catalog Description:     | LV AC machinery drive module, IEC: Pn 11 kW, 25.0 A, 400 V, UL: Pld 15 Hp, 21 A, 480 V (ACS380-042S-25A0-4)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Long Description:        | 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. |
| Display Name:            | ACS380-042S-25A0-4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

## 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-25A0-4 PN: 11 kW, IN: 25 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>             | 3.3 kg<br>7.275 lb  |
| <b>Product Net Depth / Length:</b>     | 176 mm<br>6.929 in  |
| <b>Product Net Height:</b>             | 241.3 mm            |
| <b>Product Net Width:</b>              | 170 mm<br>6.693 in  |
| <b>Package Level 1 Depth / Length:</b> | 284 mm<br>11.181 in |
| <b>Package Level 1 Height:</b>         | 273 mm<br>10.748 in |
| <b>Package Level 1 Width:</b>          | 250 mm<br>9.843 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 %                                 | 130 W            | 87.6 %     | 0.8 %            |
| 0/50 %                                 | 166 W            | 91.4 %     | 1.0 %            |
| 0/100 %                                | 290 W            | 92.4 %     | 1.7 %            |
| 50/25 %                                | 138 W            | 93.3 %     | 0.8 %            |
| 50/50 %                                | 182 W            | 95.3 %     | 1.1 %            |
| 50/100 %                               | 331 W            | 95.7 %     | 1.9 %            |
| 90/50 %                                | 207 W            | 97.0 %     | 1.2 %            |
| 90/100 %                               | 390 W            | 97.1 %     | 2.3 %            |

|                              |         |
|------------------------------|---------|
| <b>Number of Phases:</b>     | 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>                                        | 65.80 dB(A)                                                                                                               |
| <b>Multiple Battery Information:</b>                        | No battery / cell included                                                                                                |
| <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>                                       | 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>          | 25.0 A                                                                                                                    |
| <b>Output Current, Light-Overload Use (I<sub>LD</sub>):</b> | 23.8 A                                                                                                                    |
| <b>Output Current, Heavy-Duty Use (I<sub>HD</sub>):</b>     | 17.0 A                                                                                                                    |
| <b>Output Power, Normal Use (P<sub>n</sub>):</b>            | 11 kW                                                                                                                     |
| <b>Output Power, Light-Overload Use (P<sub>LD</sub>):</b>   | 11.0 kW                                                                                                                   |
| <b>Output Power, Heavy-Duty Use (P<sub>HD</sub>):</b>       | 7.5 kW                                                                                                                    |
| <b>Power Consumption (@P<sub>cons</sub>):</b>               | 390 W                                                                                                                     |
| <b>Apparent Power Output:</b>                               | 17 kV·A                                                                                                                   |
| <b>Efficiency Level:</b>                                    | IE2                                                                                                                       |
| <b>Standby Loss:</b>                                        | 26 W                                                                                                                      |
| <b>Temperature Rating:</b>                                  | Maximum 50 °C                                                                                                             |

## Technical UL

|                                                 |        |
|-------------------------------------------------|--------|
| <b>Output Current, Heavy-Duty Use (UL):</b>     | 14 A   |
| <b>Output Current, Light-Overload Use (UL):</b> | 21 A   |
| <b>Output Current, Normal Use (UL):</b>         | 21.0 A |
| <b>Output Power, Heavy-Duty Use (UL):</b>       | 10 Hp  |

Output Power, Light-Overload Use (UL): 15 Hp

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 |

Environmental

|                |                                                            |
|----------------|------------------------------------------------------------|
| SCIP:          | df291eaa-8422-40ff-acd0-55c77c3d1d9f Finland               |
| WEEE Category: | 5. Small Equipment (No External Dimension More Than 50 cm) |

External Classifications and Standards

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

Categories

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

