



PRODUCT-DETAILS

ACS380-040S-032A-4

LV AC machinery drive module, IEC: Pn 15 kW, 32.0 A, 400 V, UL: Pld 20 Hp, 27 A, 480 V (ACS380-040S-032A-4)



| General Information     |                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Global Commercial Alias | ACS380-040S-032A-4                                                                                                                                                                                                                                                                                                                                |
| Product ID              | 3AXD50000162192                                                                                                                                                                                                                                                                                                                                   |
| ABB Type Designation    | ACS380-040S-032A-4                                                                                                                                                                                                                                                                                                                                |
| EAN                     | 6438177506607                                                                                                                                                                                                                                                                                                                                     |
| Catalog Description     | LV AC machinery drive module, IEC: Pn 15 kW, 32.0 A, 400 V, UL: Pld 20 Hp, 27 A, 480 V (ACS380-040S-032A-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.            |

Ordering

|                         |                                                                                                                 |
|-------------------------|-----------------------------------------------------------------------------------------------------------------|
| Customs Tariff Number   | 85044086                                                                                                        |
| HS Code                 | 850440-- Electrical transformers, static converters (for example, rectifiers) and inductors.- Static converters |
| Invoice Description     | ACS380-040S-032A-4 PN: 15.0 kW, IN: 32 A                                                                        |
| Made To Order           | Yes                                                                                                             |
| Minimum Order Quantity  | 1 piece                                                                                                         |
| Order Multiple          | 1 piece                                                                                                         |
| Quote Only              | No                                                                                                              |
| Selling Unit of Measure | piece                                                                                                           |

## Dimensions

|                                |                     |
|--------------------------------|---------------------|
| Product Net Weight             | 5.3 kg<br>11.685 lb |
| Product Net Depth / Length     | 176 mm<br>6.929 in  |
| Product Net Height             | 240 mm<br>9.449 in  |
| Product Net Width              | 260 mm<br>10.236 in |
| Package Level 1 Depth / Length | 356 mm<br>14.016 in |
| Package Level 1 Height         | 275 mm<br>10.827 in |
| Package Level 1 Width          | 290 mm<br>11.417 in |
| Package Level 1 Units          | 1 carton            |

## Technical

|                                  |                                                                                                                           |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Number of Phases                 | 3                                                                                                                         |
| Degree of Protection             | IP20                                                                                                                      |
| Enclosure Type NEMA              | Open Type                                                                                                                 |
| Altitude                         | 1000 m<br>5 ... 95                                                                                                        |
| Power Factor                     | 0.98                                                                                                                      |
| Sound dB (A)                     | 69.00 dB(A)                                                                                                               |
| Multiple Battery Information     | No battery / cell included                                                                                                |
| Frequency (f)                    | 47.5 ... 63 Hz                                                                                                            |
| Frame Size                       | R4                                                                                                                        |
| Input Voltage (U <sub>in</sub> ) | 380 ... 480 V                                                                                                             |
| Mounting Type                    | Module                                                                                                                    |
| Communication Protocol           | MODBUS<br>Other Bus Systems                                                                                               |
| Number of Hardware Interfaces    | 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 |
| Includes                         | Control unit<br>PC connection                                                                                             |
| Analog Inputs                    | 2                                                                                                                         |

|                                                 |         |
|-------------------------------------------------|---------|
| Analog Outputs                                  | 1       |
| Number of Digital In/Outputs                    | 5 / 2   |
| Output Current, Normal Use ( $I_n$ )            | 32.0 A  |
| Output Current, Light-Overload Use ( $I_{LD}$ ) | 30.5 A  |
| Output Current, Heavy-Duty Use ( $I_{HD}$ )     | 25.0 A  |
| Output Power, Normal Use ( $P_n$ )              | 15 kW   |
| Output Power, Light-Overload Use ( $P_{LD}$ )   | 15.0 kW |
| Output Power, Heavy-Duty Use ( $P_{HD}$ )       | 11.0 kW |
| Apparent Power Output                           | 22 kV·A |
| Efficiency Level                                | IE2     |
| Standby Loss                                    | 37 W    |
| Complete Drive Module Efficiency (61800-9-2)    |         |

| Operating Point<br>Frequency / Current | Absolute<br>Loss | Efficiency | Relative<br>Loss |
|----------------------------------------|------------------|------------|------------------|
| 0/25 %                                 | 143 W            | 89.2 %     | 0.6 %            |
| 0/50 %                                 | 179 W            | 92.7 %     | 0.8 %            |
| 0/100 %                                | 299 W            | 93.8 %     | 1.3 %            |
| 50/25 %                                | 151 W            | 94.2 %     | 0.7 %            |
| 50/50 %                                | 197 W            | 96.0 %     | 0.9 %            |
| 50/100 %                               | 340 W            | 96.5 %     | 1.5 %            |
| 90/50 %                                | 220 W            | 97.5 %     | 1.0 %            |
| 90/100 %                               | 387 W            | 97.8 %     | 1.7 %            |

Temperature RatingMaximum 50 °C

Technical UL

|                                         |        |
|-----------------------------------------|--------|
| Output Current, Heavy-Duty Use (UL)     | 21 A   |
| Output Current, Light-Overload Use (UL) | 27 A   |
| Output Current, Normal Use (UL)         | 27.0 A |
| Output Power, Heavy-Duty Use (UL)       | 15 Hp  |
| Output Power, Light-Overload Use (UL)   | 20 Hp  |

External Classifications and Standards

|        |                                        |
|--------|----------------------------------------|
| ETIM 8 | EC001857 - Frequency converter =< 1 kV |
| ETIM 9 | EC001857 - Frequency converter =< 1 kV |
| UNSPSC | 39122001                               |

| Environmental |                                                            |
|---------------|------------------------------------------------------------|
| SCIP          | 45c22f64-f7c8-4b8a-aa62-2c724eae74a5 Finland (FI)          |
| WEEE Category | 5. Small Equipment (No External Dimension More Than 50 cm) |

| Additional Information |           |
|------------------------|-----------|
| Product Name           | Base unit |

| Categories                                                                   |  |
|------------------------------------------------------------------------------|--|
| Drives → Low Voltage AC Drives → Machinery Drives → ACS380 - Machinery Drive |  |
| Drives → Services → Spares and Consumables → Parts                           |  |

