PRODUCT-DETAILS

# ACS380-040S-09A8-1

## LV AC machinery drive module, IEC: Pn 2.2 kW, 9.8 A, 230 V, UL: Pld 2 Hp, 9.3 A, 208 V (ACS380 -040S-09A8-1)



### General Information

| | |
|---|---|
| Global Commercial Alias | ACS380-040S-09A8-1 |
| Product ID | 3AXD50000031877 |
| ABB Type Designation | ACS380-040S-09A8-1 |
| EAN | 6438177506362 |
| Catalog Description | LV AC machinery drive module, IEC: Pn 2.2 kW, 9.8 A, 230 V, UL: Pld 2 Hp, 9.3 A, 208 V (ACS380-040S-09A8-1) |
| 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 | 85044085 |
| HS Code | 850440 -- ELECTRICAL MACHINERY AND EQUIPMENT AND PARTS |

© 2025 ABB. All rights reserved.

| | |
|---|---|
| | 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 |
| Invoice Description | ACS380-040S-09A8-1 PN: 2.2 kW, IN: 9.8 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 | 2.0 kg<br>4.409 lb |
| Product Net Depth / Length | 176 mm<br>6.929 in |
| Product Net Height | 223 mm<br>8.780 in |
| Product Net Width | 95 mm<br>3.740 in |
| Package Level 1 Depth / Length | 282 mm<br>11.102 in |
| Package Level 1 Height | 273 mm<br>10.748 in |
| Package Level 1 Width | 174 mm<br>6.850 in |
| Package Level 1 Units | 1 carton |

## Certificates and Declarations

| | |
|---|---|
| Declaration of Conformity - CE | 3AXD10000495941 |
| REACH Date | 20250320 |
| 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 |

## Technical

| | |
|---|---|
| Number of Phases | 1-phase |
| Degree of Protection | IP20 |
| Enclosure Type NEMA | Open Type |
| Altitude | 1000 m |
| | 5 ... 95 |
| Power Factor | 0.98 |
| Sound dB (A) | 58.80 dB(A) |
| Multiple Battery Information | No battery / cell included |
| Frequency (f) | 47.5 ... 63 Hz |
| Frame Size | R2 |
| Input Voltage ($U_{in}$) | 200 ... 240 V |
| Mounting Type | Module |

© 2025 ABB. All rights reserved.

| | |
|---|---|
| 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 ($I_n$) | 9.8 A |
| Output Current, Light-Overload Use ($I_{LD}$) | 9.3 A |
| Output Current, Heavy-Duty Use ($I_{HD}$) | 7.8 A |
| Output Power, Normal Use ($P_n$) | 2.2 kW |
| Output Power, Light-Overload Use ($P_{LD}$) | 2.2 kW |
| Output Power, Heavy-Duty Use ($P_{HD}$) | 1.5 kW |
| | 92 W |
| Apparent Power Output | 3.9 kV·A |
| Efficiency Level | IE2 |
| Standby Loss | 14 W |

Complete Drive Module Efficiency (IEC61800-9-2)

| Operating Point Frequency / Current | Absolute Loss | Efficiency | Relative Loss |
|---|---|---|---|
| 0/25 % | 40 W | 83.7 % | 1.0 % |
| 0/50 % | 48 W | 89.3 % | 1.2 % |
| 0/100 % | 64 W | 92.0 % | 1.6 % |
| 50/25 % | 43 W | 91.0 % | 1.1 % |
| 50/50 % | 53 W | 94.0 % | 1.3 % |
| 50/100 % | 75 W | 95.4 % | 1.9 % |
| 90/50 % | 60 W | 96.1 % | 1.5 % |
| 90/100 % | 89 W | 96.9 % | 2.3 % |

| | |
|---|---|
| Ecodesign Exemption | Energy efficiency data is not provided for the 1~230 V drives. The drives with one phase input are not in the scope of the EU ecodesign requirements (Regulation EU/2019/1781). |

## Technical UL

| | |
|---|---|
| Output Current, Heavy-Duty Use (UL) | 7.5 A |

© 2025 ABB. All rights reserved.

| | |
|---|---|
| Output Current, Light-Overload Use (UL) | 9.3 A |
| Output Power, Heavy-Duty Use (UL) | 2 Hp |
| Output Power, Light-Overload Use (UL) | 2 Hp |

## External Classifications and Standards

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

## Environmental

| | |
|---|---|
| SCIP | 577e5c08-5a76-40f0-9d37-146997f79a79 Finland |
| WEEE Category | 5. Small Equipment (No External Dimension More Than 50 cm) |

## Categories

Drives → Low Voltage AC Drives → Machinery Drives → ACS380 - Machinery Drive



© 2025 ABB. All rights reserved.