

PRODUCT-DETAILS

ACS380-042S-07A2-4

ACS380-042S-07A2-4 PN: 3.0 kW, IN: 7.2 A



General Information

| | |
|-------------------------|--|
| Global Commercial Alias | ACS380-042S-07A2-4 |
| Product ID | 3AXD50000031901 |
| ABB Type Designation | ACS380-042S-07A2-4 |
| EAN | 6438177506768 |
| Catalog Description | ACS380-042S-07A2-4 PN: 3.0 kW, IN: 7.2 A |

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

| | |
|------------------------|--|
| Country of Origin | Finland (FI) |
| Customs Tariff Number | 850440 |
| Invoice Description | ACS380-042S-07A2-4 PN: 3.0 kW, IN: 7.2 A |
| Made To Order | Yes |
| Minimum Order Quantity | 1 piece |
| Order Multiple | 1 piece |
| Quote Only | No |

| | |
|-------------------------|-------|
| Selling Unit of Measure | piece |
|-------------------------|-------|

Container Information

| | |
|--------------|-----------------------|
| Gross Volume | 2.747 dm ³ |
|--------------|-----------------------|

Dimensions

| | |
|--------------------------------|---------------------|
| Product Net Weight | 1.40 kg 3.086 lb |
| Product Net Depth / Length | 176 mm 6.929 in |
| Product Net Height | 223 mm 8.780 in |
| Product Net Width | 70 mm 2.756 in |
| Package Level 1 Depth / Length | 282 mm 11.102 in |
| Package Level 1 Height | 273 mm 10.748 in |
| Package Level 1 Width | 148 mm 5.827 in |
| Package Level 1 Units | 1 carton |

Technical

| | |
|---|---|
| Number of Phases | 3 |
| Degree of Protection | IP20 |
| Enclosure Type NEMA | Open Type |
| Altitude | 1000 m |
| Power Factor | 0.98 |
| Sound dB (A) | 63.10 dB(A) |
| Frequency (f) | 47 ... 63 Hz |
| Frame Size | R1 |
| Input Voltage (U_{in}) | 380 ... 480 V |
| Mounting Type | Module for cabinet building |
| Communication Protocol | MODBUS Other Bus Systems |
| Number of Hardware Interfaces | Industrial Ethernet 0 Other 3 Parallel 0 PROFINET 0 RS-232 0 RS-422 0 RS-485 1 Serial TTY 0 USB 0 |
| Includes | With control unit Without optical interface With PC connection |
| Analog Inputs | 2 |
| Analog Outputs | 1 |
| Number of Digital In/Outputs | 5 / 2 |
| Output Current, Heavy-Duty Use (I_{HD}) | 5.6 A |
| Output Current, Light- | 6.8 A |

| | |
|---|----------|
| Overload Use (I_{LD}) | |
| Output Current, Normal Use (I_n) | 7.2 A |
| Output Power, Heavy-Duty Use (P_{HD}) | 2.2 kW |
| Output Power, Light-Overload Use (P_{LD}) | 3.0 kW |
| Output Power, Normal Use (P_n) | 3.0 kW |
| Apparent Power Output | 5.0 kV-A |
| Efficiency Level | IE2 |
| Standby Loss | 15 W |
| Complete Drive Module Efficiency (61800-9-2) | |

| Operating Point Frequency / Current | Absolute Loss | Efficiency | Relative Loss |
|-------------------------------------|---------------|------------|---------------|
| 0/25 % | 48 W | 84.6 % | 1.0 % |
| 0/50 % | 55 W | 90.2 % | 1.1 % |
| 0/100 % | 76 W | 92.6 % | 1.5 % |
| 50/25 % | 50 W | 91.7 % | 1.0 % |
| 50/50 % | 60 W | 94.7 % | 1.2 % |
| 50/100 % | 86 W | 95.8 % | 1.7 % |
| 90/50 % | 67 W | 96.6 % | 1.3 % |
| 90/100 % | 100 W | 97.2 % | 2.0 % |

Temperature Rating Maximum 50 °C

Additional Information

| | |
|-------------------|---------------------|
| Product Main Type | ACS380-042S |
| Product Name | Frequency converter |

Classifications

| | |
|--------|--|
| ETIM 7 | EC001857 - Frequency converter =< 1 kV |
| UNSPSC | 39122001 |

Environmental

| | |
|---------------|--|
| SCIP | df417ff4-f8a5-4aa8-b5b9-bb43623953af Finland (FI) |
| WEEE Category | 5. Small Equipment (No External Dimension More Than 50 cm) |

Categories

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

