



PRODUCT-DETAILS

ACS380-042C-045A-4

LV AC machinery drive module, IEC: Pn 22.0 kW, 45.0 A, 400 V, UL: Pld 30.0 Hp, 40.0 A, 480 V (ACS380-042C-045A-4)



| General Information | |
|-------------------------|---|
| Global Commercial Alias | ACS380-042C-045A-4 |
| Product ID | 3AXD50000162338 |
| ABB Type Designation | ACS380-042C-045A-4 |
| Catalog Description | LV AC machinery drive module, IEC: Pn 22.0 kW, 45.0 A, 400 V, UL: Pld 30.0 Hp, 40.0 A, 480 V (ACS380-042C-045A-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 | |
|-----------------------|--|
| Country of Origin | China (CN) Finland (FI) |
| Customs Tariff Number | 85044086 |
| Invoice Description | ACS380-042C-045A-4 PN: 22 kW, IN: 45 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 | 10.982 dm³ |
|--------------|------------|

Dimensions

| | |
|--------------------------------|---------------------|
| Product Net Weight | 5.3 kg 11.685 lb |
| Product Net Depth / Length | 176 mm 6.929 in |
| Product Net Height | 240 mm 9.449 in |
| Product Net Width | 260 mm 10.236 in |
| Package Level 1 Depth / Length | 356 mm 14.016 in |
| Package Level 1 Height | 275 mm 10.827 in |
| Package Level 1 Width | 290 mm 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 |
| Power Factor | 0.98 |
| Sound dB (A) | 69.00 dB(A) |
| Frequency (f) | 47 ... 63 Hz |
| Frame Size | R4 |
| Input Voltage (U _{in}) | 380 ... 480 V |
| Mounting Type | Module for cabinet building |
| Communication Protocol | CAN DeviceNet EtherNet/IP MODBUS Other Bus Systems PROFIsafe PROFIBUS PROFINET IO TCP/IP |

| | |
|---|---|
| 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 | Control unit PC connection |
| Analog Inputs | 0 |
| Analog Outputs | 0 |
| Number of Digital In/Outputs | 2 / 1 |
| Output Current, Heavy-Duty Use (I_{HD}) | 38.0 A |
| Output Current, Light-Overload Use (I_{LD}) | 42.8 A |
| Output Current, Normal Use (I_n) | 45.0 A |
| Output Power, Heavy-Duty Use (P_{HD}) | 18.5 kW |
| Output Power, Light-Overload Use (P_{LD}) | 22.0 kW |
| Output Power, Normal Use (P_n) | 22.0 kW |
| Apparent Power Output | 31 kV·A |
| Efficiency Level | IE2 |
| Standby Loss | 38 W |
| Complete Drive Module Efficiency (61800-9-2) | |

| Operating Point Frequency / Current | Absolute Loss | Efficiency | Relative Loss |
|--|------------------|------------|------------------|
| 0/25 % | 204 W | 89.0 % | 0.7 % |
| 0/50 % | 260 W | 92.5 % | 0.8 % |
| 0/100 % | 450 W | 93.4 % | 1.4 % |
| 50/25 % | 216 W | 94.1 % | 0.7 % |
| 50/50 % | 285 W | 95.9 % | 0.9 % |
| 50/100 % | 508 W | 96.3 % | 1.6 % |
| 90/50 % | 319 W | 97.4 % | 1.0 % |
| 90/100 % | 582 W | 97.6 % | 1.9 % |

| | |
|--------------------|---------------|
| Temperature Rating | Maximum 50 °C |
|--------------------|---------------|

Additional Information

| | |
|-------------------|-------------|
| Product Main Type | ACS380-042C |
| Product Name | Base unit |

| Classifications | |
|-----------------|----------|
| UNSPSC | 39122001 |

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

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

