

PRODUCT-DETAILS

ACS380-042S-050A-4

ACS380-042S-050A-4; ACS380-042S-050A-4

PN: 22 kW, IN: 50 A



General Information

Global Commercial Alias	ACS380-042S-050A-4
Product ID	3AXD50000162307
ABB Type Designation	ACS380-042S-050A-4
EAN	6438177506843
Catalog Description	ACS380-042S-050A-4; ACS380-042S-050A-4 PN: 22 kW, IN: 50 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-050A-4 PN: 22 kW, IN: 50 A
Made To Order	Yes
Minimum Order Quantity	1 piece
Order Multiple	1 piece
Quote Only	No

Selling Unit of Measure	piece
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Container Information

Gross Volume	10.982 dm ³
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Dimensions

Product Net Weight	5.3 kg
Product Net Depth / Length	176 mm
Product Net Height	240 mm
Product Net Width	260 mm
Package Level 1 Depth / Length	356 mm
Package Level 1 Height	275 mm
Package Level 1 Width	290 mm
Package Level 1 Units	1 carton

Technical

Number of Phases	3
Degree of Protection	acc. to IEC 60529 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	MODBUS Other Bus Systems
Number of Hardware Interfaces	Industrial Ethernet 0 Other 2 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})	45.0 A
Output Current, Light-Overload Use (I_{LD})	48.0 A
Output Current, Normal	50.0 A

Use (I_n)Output Power, Heavy-Duty Use (P_{HD}) 22.0 kWOutput Power, Light-Overload Use (P_{LD}) 22.0 kWOutput Power, Normal Use (P_n) 22.0 kW

Apparent Power Output 35 kV·A

Efficiency Level IE2

Standby Loss 38 W

Complete Drive Module Efficiency (61800-9-2)

Operating Point Frequency / Current	Absolute Loss	Relative Loss	Efficiency
0 / 25 %	230 W	0.7 %	88.9 %
0 / 50 %	296 W	0.9 %	92.3 %
0 / 100 %	523 W	1.5 %	93.1 %
50 / 25 %	243 W	0.7 %	94.0 %
50 / 50 %	324 W	0.9 %	95.8 %
50 / 100 %	589 W	1.7 %	96.2 %
90 / 50 %	363 W	1.0 %	97.3 %
90 / 100 %	672 W	1.9 %	97.5 %

Temperature Rating Maximum 50 °C

Additional Information

Product Main Type ACS380-042S

Product Name Base unit

Classifications

ETIM 7 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)

Categories

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

Drives → Services → Spares and Consumables → Parts

