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 PRODUCT-DETAILS

## ACS380-040S-12A6-4

LV AC machinery drive module, IEC: Pn 5.5 kW, 12.6 A, 400 V, UL: Pld 7.5 Hp, 11 A, 480 V  
(ACS380-040S-12A6-4)




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### General Information

Global Commercial Alias	ACS380-040S-12A6-4
Product ID	3AXD50000031893
ABB Type Designation	ACS380-040S-12A6-4
EAN	6438177506454
Catalog Description	LV AC machinery drive module, IEC: Pn 5.5 kW, 12.6 A, 400 V, UL: Pld 7.5 Hp, 11 A, 480 V (ACS380-040S-12A6-4)
Long Description	<p>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.</p> <p>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.</p>

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### Ordering

Country of Origin	China (CN) Finland (FI)
Customs Tariff Number	85044085
HS Code	850440-- Electrical transformers, static converters (for example, rectifiers) and inductors.- Static converters
Invoice Description	ACS380-040S-12A6-4 PN: 5.5 kW, IN: 12.6 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 4.409 lb
Product Net Depth / Length	176 mm 6.929 in
Product Net Height	223 mm 8.780 in
Product Net Width	95 mm 3.740 in
Package Level 1 Depth / Length	282 mm 11.102 in
Package Level 1 Height	273 mm 10.748 in
Package Level 1 Width	174 mm 6.850 in
Package Level 1 Units	1 carton

### Technical

Number of Phases	3
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 <sub>in</sub> )	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	Control unit PC connection

Analog Inputs	2
Analog Outputs	1
Number of Digital In/Outputs	5 / 2
Output Current, Heavy-Duty Use ( $I_{HD}$ )	9.4 A
Output Current, Light-Overload Use ( $I_{LD}$ )	12.0 A
Output Current, Normal Use ( $I_n$ )	12.6 A
Output Power, Heavy-Duty Use ( $P_{HD}$ )	4.0 kW
Output Power, Light-Overload Use ( $P_{LD}$ )	5.5 kW
Output Power, Normal Use ( $P_n$ )	5.5 kW
Apparent Power Output	8.7 kV-A
Efficiency Level	IE2
Standby Loss	16 W
Complete Drive Module Efficiency (61800-9-2)	

Operating Point Frequency / Current	Absolute Loss	Efficiency	Relative Loss
0/25 %	61 W	88.4 %	0.7 %
0/50 %	75 W	92.2 %	0.9 %
0/100 %	126 W	93.4 %	1.4 %
50/25 %	63 W	93.8 %	0.7 %
50/50 %	82 W	95.8 %	0.9 %
50/100 %	141 W	96.3 %	1.6 %
90/50 %	91 W	97.3 %	1.0 %
90/100 %	162 W	97.6 %	1.9 %

Temperature Rating Maximum 50 °C

### Technical UL

Output Current, Heavy-Duty Use (UL)	7.6 A
Output Current, Light-Overload Use (UL)	11 A
Output Current, Normal Use (UL)	11.0 A
Output Power, Heavy-Duty Use (UL)	5 Hp
Output Power, Light-Overload Use (UL)	7.5 Hp

### Classifications

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

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### Environmental

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SCIP	cd4e0d31-f9a3-400d-a002-4c686402b059 Finland (FI)
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)

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### Additional Information

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Product Name	Frequency converter
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### Categories

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

