

PRODUCT-DETAILS

ACS380-042C-01A8-4

LV AC machinery drive module, IEC: Pn 0.55 kW, 1.8 A, 400 V, UL: Pld 0.75 Hp, 1.6 A, 480 V (ACS380-042C-01A8-4)



General Information	
Global Commercial Alias	ACS380-042C-01A8-4
Product ID	3AXD50000031861
ABB Type Designation	ACS380-042C-01A8-4
Catalog Description	LV AC machinery drive module, IEC: Pn 0.55 kW, 1.8 A, 400 V, UL: Pld 0.75 Hp, 1.6 A, 480 V (ACS380-042C-01A8-4)
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	85044085
Invoice Description	ACS380-042C-01A8-4 PN: 0.55 kW, IN: 1.8 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 dm³
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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	280 mm 11.024 in
Package Level 1 Height	170 mm 6.693 in
Package Level 1 Width	230 mm 9.055 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)	< 30 dB(A)
Frequency (f)	47 ... 63 Hz
Frame Size	R0
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})	1.2 A
Output Current, Light-Overload Use (I_{LD})	1.7 A
Output Current, Normal Use (I_n)	1.8 A
Output Power, Heavy-Duty Use (P_{HD})	0.37 kW
Output Power, Light-Overload Use (P_{LD})	0.55 kW
Output Power, Normal Use (P_n)	0.55 kW
Apparent Power Output	1.2 kV·A
Efficiency Level	IE2
Standby Loss	10 W
Complete Drive Module Efficiency (61800-9-2)	

Operating Point Frequency / Current	Absolute Loss	Efficiency	Relative Loss
0/25 %	21 W	79.5 %	1.7 %
0/50 %	21 W	85.3 %	1.7 %
0/100 %	24 W	90.1 %	1.9 %
50/25 %	22 W	88.6 %	1.7 %
50/50 %	23 W	92.0 %	1.8 %
50/100 %	26 W	94.5 %	2.1 %
90/50 %	24 W	95.0 %	2.0 %
90/100 %	28 W	96.7 %	2.3 %

Temperature Rating	Maximum 50 °C
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Additional Information

Product Main Type	ACS380-042C
Product Name	Frequency converter

Classifications		
UNSPSC		39122001

Environmental		
SCIP	e1a24d5c-f26a-456d-a398-fbda49d35a05 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		

