

PRODUCT-DETAILS

ACS380-042C-038A-4

LV AC machinery drive module, IEC: Pn 18.5 kW, 38.0 A, 400 V, UL: Pld 25.0 Hp, 34.0 A, 480 V (ACS380-042C-038A-4)



General Information

Global Commercial Alias	ACS380-042C-038A-4
Product ID	3AXD50000162321
ABB Type Designation	ACS380-042C-038A-4
Catalog Description	LV AC machinery drive module, IEC: Pn 18.5 kW, 38.0 A, 400 V, UL: Pld 25.0 Hp, 34.0 A, 480 V (ACS380-042C-038A-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>

Ordering

Country of Origin	China (CN) Finland (FI)
Customs Tariff Number	85044086
Invoice Description	ACS380-042C-038A-4 PN: 18.5 kW, IN: 38 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
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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})	32.0 A
Output Current, Light-Overload Use (I_{LD})	36.0 A
Output Current, Normal Use (I_n)	38.0 A
Output Power, Heavy-Duty Use (P_{HD})	15.0 kW
Output Power, Light-Overload Use (P_{LD})	18.5 kW
Output Power, Normal Use (P_n)	18.5 kW
Apparent Power Output	26 kV·A
Efficiency Level	IE2
Standby Loss	37 W
Complete Drive Module Efficiency (61800-9-2)	

Operating Point Frequency / Current	Absolute Loss	Efficiency	Relative Loss
0/25 %	185 W	88.3 %	0.7 %
0/50 %	233 W	92.0 %	0.9 %
0/100 %	391 W	93.2 %	1.5 %
50/25 %	196 W	93.7 %	0.7 %
50/50 %	255 W	95.7 %	1.0 %
50/100 %	443 W	96.2 %	1.7 %
90/50 %	284 W	97.3 %	1.1 %
90/100 %	497 W	97.6 %	1.9 %

Temperature Rating	Maximum 50 °C
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Additional Information

Product Main Type	ACS380-042C
Product Name	Base unit

Classifications

UNSPSC	39122001
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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

