PRODUCT-DETAILS

ACS380-040S-038A-4

LV AC machinery drive module, IEC: Pn 18.5 kW, 38.0 A, 400 V, UL: Pld 25 Hp, 34 A, 480 V (ACS380-040S-038A-4)

General Information

Global Commercial Alias	ACS380-040S-038A-4
Product ID	3AXD50000162208
ABB Type Designation	ACS380-040S-038A-4
EAN	6438177506614
Catalog Description	LV AC machinery drive module, IEC: Pn 18.5 kW, 38.0 A, 400 V, UL: Pld 25 Hp, 34 A, 480 V (ACS380-040S-038A-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

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Customs Tariff Number	85044086
HS Code	850440-- Electrical transformers, static converters (for example, rectifiers) and inductors.- Static converters
Invoice Description	ACS380-040S-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

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

Certificates and Declarations

Declaration of Conformity - CE	3AXD10000495941
REACH Date	20241203
REACH Declaration	9AKK107992A7060
REACH Information	True - contains substances > 0.1 mass percentage
RoHS Date	20230303
RoHS Information	3AXD10000495941
RoHS Status	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019

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)	69.00 dB(A)
Multiple Battery Information	No battery / cell included
Frequency (f)	47.5 ... 63 Hz
Frame Size	R4
Input Voltage (U_{in})	380 ... 480 V
Mounting Type	Module
Communication Protocol	MODBUS

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	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, Normal Use (I_n)	38.0 A
Output Current, Light-Overload Use (I_{LD})	36.0 A
Output Current, Heavy-Duty Use (I_{HD})	32.0 A
Output Power, Normal Use (P_n)	18.5 kW
Output Power, Light-Overload Use (P_{LD})	18.5 kW
Output Power, Heavy-Duty Use (P_{HD})	15.0 kW
	497 W
Apparent Power Output	26 kV·A
Efficiency Level	IE2
Standby Loss	37 W
Complete Drive Module Efficiency (IEC61800-9-2)	

Operating Point Frequency / Current	Absolute Loss	Efficiency	Relative Loss
0/25 %	176 W	88.8 %	0.7 %
0/50 %	224 W	92.3 %	0.9 %
0/100 %	382 W	93.4 %	1.5 %
50/25 %	187 W	93.9 %	0.7 %
50/50 %	246 W	95.8 %	0.9 %
50/100 %	434 W	96.3 %	1.6 %
90/50 %	275 W	97.4 %	1.0 %
90/100 %	488 W	97.6 %	1.9 %

Temperature Rating	Maximum 50 °C

Technical UL

Output Current, Heavy-Duty Use (UL)	27 A
Output Current, Light-Overload Use (UL)	34 A
Output Current, Normal	34.0 A

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Use (UL)	
Output Power, Heavy-Duty Use (UL)	20 Hp
Output Power, Light-Overload Use (UL)	25 Hp

External Classifications and Standards

ETIM 9	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)

Additional Information

Product Name	Base unit

Categories

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

Drives → Services → Spares and Consumables → Parts

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