PRODUCT-DETAILS

ACS380-042S-12A2-1

LV AC machinery drive module, IEC: Pn 3 kW, 12.2 A, 230 V, UL: Pld 3 Hp, 11.6 A, 208 V (ACS380-042S-12A2-1)



General Information

Global Commercial Alias	ACS380-042S-12A2-1
Product ID	3AXD50000031885
ABB Type Designation	ACS380-042S-12A2-1
EAN	6438177506706
Catalog Description	LV AC machinery drive module, IEC: Pn 3 kW, 12.2 A, 230 V, UL: Pld 3 Hp, 11.6 A, 208 V (ACS380-042S-12A2-1)
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

Customs Tariff Number	85044085
HS Code	850440 -- ELECTRICAL MACHINERY AND EQUIPMENT AND PARTS

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	THEREOF; SOUND RECORDERS AND REPRODUCERS, TELEVISION IMAGE AND SOUND RECORDERS AND REPRODUCERS, AND PARTS AND ACCESSORIES OF SUCH ARTICLES;Electrical transformers, static converters (for example, rectifiers) and inductors;Static converters
Invoice Description	ACS380-042S-12A2-1 PN: 3.0 kW, IN: 12.2 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 11.10 in
Package Level 1 Height	273 mm 10.75 in
Package Level 1 Width	174 mm 6.85 in
Package Level 1 Units	1 carton

Certificates and Declarations

Declaration of Conformity - CE	3AXD10000495941
REACH Date	20250320
REACH Declaration	9AKK107992A7060
REACH Information	True - contains substances > 0.1 mass percentage
RoHS Date	20230303
RoHS Declaration	3AXD10000495941
RoHS Information	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019

Technical

Number of Phases	1-phase
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_{in})	200 ... 240 V
Mounting Type	Module

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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, Normal Use (I_n)	12.2 A
Output Current, Light-Overload Use (I_{LD})	11.6 A
Output Current, Heavy-Duty Use (I_{HD})	9.8 A
Output Power, Normal Use (P_n)	3 kW
Output Power, Light-Overload Use (P_{LD})	3.0 kW
Output Power, Heavy-Duty Use (P_{HD})	2.2 kW
	115 W
Apparent Power Output	4.9 kV·A
Efficiency Level	IE2
Standby Loss	15 W

Complete Drive Module Efficiency (IEC61800-9-2)

Operating Point Frequency / Current	Absolute Loss	Efficiency	Relative Loss
0/25 %	51 W	83.3 %	1.1 %
0/50 %	61 W	89.0 %	1.3 %
0/100 %	83 W	91.7 %	1.7 %
50/25 %	55 W	90.7 %	1.1 %
50/50 %	68 W	93.9 %	1.4 %
50/100 %	97 W	95.2 %	2.0 %
90/50 %	77 W	96.0 %	1.6 %
90/100 %	115 W	96.8 %	2.4 %

Ecodesign Exemption	Energy efficiency data is not provided for the 1~230 V drives. The drives with one phase input are not in the scope of the EU ecodesign requirements (Regulation EU/2019/1781).

Technical UL

Output Current, Heavy-Duty Use (UL)	9.3 A

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Output Current, Light-Overload Use (UL)	11.6 A
Output Power, Heavy-Duty Use (UL)	3 Hp
Output Power, Light-Overload Use (UL)	3 Hp

External Classifications and Standards

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

Environmental

SCIP	577e5c08-5a76-40f0-9d37-146997f79a79 Finland
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)

Categories

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



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