



 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.
Display Name:	ACS380-042S-12A2-1

Ordering

Customs Tariff Number:	85044087
HS Code:	850440 -- ELECTRICAL MACHINERY AND EQUIPMENT AND PARTS 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 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:	carton 1 piece

Technical

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 %

Number of Phases:	1-phase
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Degree of Protection:	IP20
Enclosure Type NEMA:	Open Type
Altitude:	1000 m
Operating Humidity (RH_{amb}):	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
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
Power Consumption (@P_{cons}):	115 W
Apparent Power Output:	4.9 kV-A
Efficiency Level:	IE2
Standby Loss:	15 W
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
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

Certificates and Declarations

Declaration of Conformity - CE:	3AXD10000495941
REACH Date:	20250905
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

Environmental

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

External Classifications and Standards

ETIM 9:	EC001857 - Frequency converter =< 1 kV
ETIM 10:	EC001857 - Frequency converter =< 1 kV
UNSPSC:	39122001

Categories

Products > Drives > Low Voltage AC Drives > Machinery Drives > ACS380 - Machinery Drive

