



PRODUCT-DETAILS

ACS380-040S-12A2-1

LV AC machinery drive module, IEC: Pn 3.0 kW, 12.2 A, 230 V, UL: Pld 3.0 Hp, 20.1 A, 230 V (ACS380-040S-12A2-1)



General Information	
Global Commercial Alias	ACS380-040S-12A2-1
Product ID	3AXD50000031878
ABB Type Designation	ACS380-040S-12A2-1
EAN	6438177506379
Catalog Description	LV AC machinery drive module, IEC: Pn 3.0 kW, 12.2 A, 230 V, UL: Pld 3.0 Hp, 20.1 A, 230 V (ACS380-040S-12A2-1)
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	85044085
Invoice Description	ACS380-040S-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

Container Information

Gross Volume	3.729 dm³
--------------	-----------

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 11.102 in
Package Level 1 Height	273 mm 10.748 in
Package Level 1 Width	174 mm 6.850 in
Package Level 1 Units	1 carton

Technical

Number of Phases	1
Degree of Protection	IP20
Enclosure Type NEMA	Open Type
Altitude	1000 m
Power Factor	0.98
Sound dB (A)	58.80 dB(A)
Frequency (f)	47 ... 63 Hz
Frame Size	R2
Input Voltage (U <sub>in</sub> )	200 ... 240 V
Mounting Type	Module for cabinet building
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	5 / 2

In/Outputs

Output Current, Heavy-Duty Use ( $I_{HD}$ )	9.8 A
Output Current, Light-Overload Use ( $I_{LD}$ )	11.6 A
Output Current, Normal Use ( $I_n$ )	12.2 A
Output Power, Heavy-Duty Use ( $P_{HD}$ )	2.2 kW
Output Power, Light-Overload Use ( $P_{LD}$ )	3.0 kW
Output Power, Normal Use ( $P_n$ )	3.0 kW
Apparent Power Output	4.9 kV·A
Efficiency Level	IE2
Standby Loss	15 W
Complete Drive Module Efficiency (61800-9-2)	

Operating Point Frequency / Current	Absolute Loss	Efficiency	Relative Loss
0/25 %	48 W	84.2 %	1.0 %
0/50 %	58 W	89.5 %	1.2 %
0/100 %	80 W	92.0 %	1.7 %
50/25 %	52 W	91.2 %	1.1 %
50/50 %	65 W	94.1 %	1.3 %
50/100 %	94 W	95.3 %	1.9 %
90/50 %	74 W	96.2 %	1.5 %
90/100 %	112 W	96.9 %	2.3 %

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).

Additional Information

Product Main Type	ACS380-040S
Product Name	Frequency converter

Classifications

ETIM 8	EC001857 - Frequency converter =< 1 kV
ETIM 9	EC001857 - Frequency converter =< 1 kV
UNSPSC	39122001

Environmental

SCIP	577e5c08-5a76-40f0-9d37-146997f79a79 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

