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 PRODUCT-DETAILS

## ACS180-04N-12A2-1

LV AC machinery drive module, IEC: Pn 3 kW,  
12.2 A, 230 V, UL: Pld 3 Hp, 11.6 A, 230 V  
(ACS180-04N-12A2-1)




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**General Information**

Global Commercial Alias	ACS180-04N-12A2-1
Product ID	3AXD50000840335
ABB Type Designation	ACS180-04N-12A2-1
EAN	6438177690573

Catalog Description	LV AC machinery drive module, IEC: Pn 3 kW, 12.2 A, 230 V, UL: Pld 3 Hp, 11.6 A, 230 V (ACS180-04N-12A2-1)
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Long Description	The ACS180 is a compact, robust, and adaptable variable speed drive (VSD) for applications such as pumps, fans, compressors, conveyors, winders and mixers. This easy-to-use compact VSD offers excellent performance and quality at superior value with all essential machinery application features embedded. And as a member of ABB's all-compatible drives portfolio, it shares the same architecture and user interfaces for ease of use.
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**Ordering**

Customs Tariff Number	850440
HS Code	850440-- Electrical transformers, static converters (for example, rectifiers) and inductors.- Static converters
Invoice Description	ACS180-04N-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	2.01 kg 4.431 lb
Product Net Depth / Length	143 mm 5.630 in
Product Net Height	230 mm 9.055 in
Product Net Width	120 mm 4.724 in
Package Level 1 Depth / Length	287 mm 11.299 in
Package Level 1 Height	201 mm 7.913 in
Package Level 1 Width	176 mm 6.929 in
Package Level 1 Units	1 carton

## Technical

Number of Phases	1
Degree of Protection	IP20
Enclosure Type NEMA	Open Type
Altitude	2000 m 5 ... 95
Power Factor	0.98
Sound dB (A)	62 dB(A)
Multiple Battery Information	No battery / cell included
Frequency (f)	47 ... 63 Hz
Frame Size	R2
Input Voltage (U <sub>in</sub> )	200 ... 240 V
Mounting Type	Module
Communication Protocol	MODBUS
Number of Hardware Interfaces	Industrial Ethernet 0 Other 1 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	4 / 2
Output Current, Normal	12.2 A
Use (I <sub>n</sub> )	

Output Current, Light-Overload Use ( $I_{LD}$ )	11.6 A
Output Current, Heavy-Duty Use ( $I_{HD}$ )	9.3 A
Output Power, Normal Use ( $P_n$ )	3 kW
Output Power, Light-Overload Use ( $P_{LD}$ )	3 kW
Output Power, Heavy-Duty Use ( $P_{HD}$ )	2.2 kW
Apparent Power Output Complete Drive Module Efficiency (61800-9-2)	4.9 kV·A

Operating Point Frequency / Current
0/25 %
0/50 %
0/100 %
50/25 %
50/50 %
50/100 %
90/50 %
90/100 %

**Technical UL**

Output Current, Heavy-Duty Use (UL)	9.8 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

**Environmental**

SCIP	cb233721-9552-452e-85d9-fab6b51eca0b Finland (FI)
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)

**Additional Information**

Product Name	Frequency converter
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## Categories

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Drives → Low Voltage AC Drives → Machinery Drives → ACS180 - Machinery Drive

