ABB

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)

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)
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.
Display Name:	ACS180-04N-12A2-1

Ordering

2026/02/21   Subject to change without notice

Customs Tariff Number:	850440
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:	ACS180-04N-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:	2.01 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

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

Number of Phases:	1-phase
Degree of Protection:	IP20
Enclosure Type NEMA:	Open Type

Altitude:	2000 m
Operating Humidity (RH$_{amb}$):	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$_{in}$):	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 Use (I$_n$):	12.2 A
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:	4.9 kV·A

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

Certificates and Declarations

REACH Date:	20250905
REACH Declaration:	9AKK107992A7060

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REACH Information:	True - contains substances > 0.1 mass percentage
RoHS Date:	20250106
RoHS Declaration:	3AXD10001117584
RoHS Information:	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019

Environmental

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

Categories

Products > Drives > Low Voltage AC Drives > Machinery Drives > ACS180 - Machinery Drive