



PRODUCT-DETAILS

ACS180-04S-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
(ACS180-04S-12A2-1)



General Information	
Global Commercial Alias	ACS180-04S-12A2-1
Product ID	3AXD50000840359
ABB Type Designation	ACS180-04S-12A2-1
EAN	6438177690597
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 (ACS180-04S-12A2-1)
Long Description	The ACS180 is a compact and robust 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.

Ordering	
Country of Origin	Viet Nam (VN) Finland (FI) China (CN)
Customs Tariff Number	85044085
HS Code	850440-- Electrical transformers, static converters (for example, rectifiers) and inductors.- Static converters
Invoice Description	ACS180-04S-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_{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-	9.3 A

Duty Use (I_{HD})	
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 %

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

External Classifications and Standards

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

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

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

