



 PRODUCT-DETAILS

ACS180-04S-12A6-4

LV AC machinery drive module, IEC: Pn 5.5 kW,
12.6 A, 400 V, UL: Pld 7.5 Hp, 11.0 A, 460 V
(ACS180-04S-12A6-4)



General Information

Global Commercial Alias	ACS180-04S-12A6-4
Product ID	3AXD50000814077
ABB Type Designation	ACS180-04S-12A6-4
EAN	6438177689836
Catalog Description	LV AC machinery drive module, IEC: Pn 5.5 kW, 12.6 A, 400 V, UL: Pld 7.5 Hp, 11.0 A, 460 V (ACS180-04S-12A6-4)

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

Customs Tariff Number	85044086
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	ACS180-04S-12A6-4 PN: 5.5 kW, IN: 12.6 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	3-phase
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})	380 ... 480 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)	12.6 A
Output Current, Light- Overload Use (I_{LD})	12.0 A
Output Current, Heavy- Duty Use (I_{HD})	9.4 A
Output Power, Normal Use (P_n)	5.5 kW
Output Power, Light- Overload Use (P_{LD})	5.5 kW
Output Power, Heavy- Duty Use (P_{HD})	4 kW
	157 W
Apparent Power Output	8.7 kV·A
Efficiency Level	IE2
Standby Loss	12 W
Complete Drive Module Efficiency (IEC61800-9-2)	

Operating Point Frequency / Current	Absolute Loss	Efficiency	Relative Loss
0/25 %	54 W	89.5 %	0.6 %
0/50 %	66 W	93.1 %	0.8 %
0/100 %	105 W	94.4 %	1.2 %
50/25 %	57 W	94.4 %	0.7 %
50/50 %	74 W	96.2 %	0.8 %
50/100 %	125 W	96.7 %	1.4 %
90/50 %	85 W	97.5 %	1.0 %
90/100 %	157 W	97.7 %	1.8 %

Temperature Rating Maximum 40 °C

Technical UL

Output Current, Heavy- Duty Use (UL)	7.6 A
Output Current, Light- Overload Use (UL)	11.0 A
Output Power, Heavy- Duty Use (UL)	5 Hp
Output Power, Light- Overload Use (UL)	7.5 Hp

Certificates and Declarations

Declaration of Conformity - CE	3AXD10001117584
REACH Date	20250905
REACH Declaration	9AKK107992A7060
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	c4c7e908-d15d-4601-993d-bf271f952213 Finland
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)

External Classifications and Standards

ETIM 9	EC001857 - Frequency converter =< 1 kV
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Categories

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

