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.
Display Name:	ACS180-04S-12A6-4

Ordering

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Customs Tariff Number:	85044087
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:	carton 1 piece

Technical

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 %

Number of Phases:	3-phase
Degree of Protection:	IP20
Enclosure Type NEMA:	Open Type

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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}):	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
Power Consumption (@P_{cons}):	157 W
Apparent Power Output:	8.7 kV·A
Efficiency Level:	IE2
Standby Loss:	12 W
Temperature Rating:	Maximum 40 °C

Technical UL

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

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Certificates and Declarations

Declaration of Conformity - CE:	3AXD10001117584
REACH Date:	20260316
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

Recyclability Rate of the Product acc. to EN45555:	47.4 %
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
ETIM 10:	EC001857 - Frequency converter =< 1 kV

Categories

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



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