



 PRODUCT-DETAILS

ACS180-04S-09A8-2

LV AC machinery drive module, IEC: Pn 2.2 kW, 9.8 A, 230 V, UL: Pld 2 Hp, 9.6 A, 208 V (ACS180-04S-09A8-2)



General Information

Global Commercial Alias	ACS180-04S-09A8-2
Product ID	3AXD50000827626
ABB Type Designation	ACS180-04S-09A8-2
EAN	6438177690559

Catalog Description	LV AC machinery drive module, IEC: Pn 2.2 kW, 9.8 A, 230 V, UL: Pld 2 Hp, 9.6 A, 208 V (ACS180-04S-09A8-2)
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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.
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Ordering

Customs Tariff Number	85044085
HS Code	850440-- Electrical transformers, static converters (for example, rectifiers) and inductors.- Static converters
Invoice Description	ACS180-04S-09A8-2 PN: 2.2 kW, IN: 9.8 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	1.24 kg 2.734 lb
Product Net Depth / Length	143 mm 5.630 in
Product Net Height	220 mm 8.661 in
Product Net Width	70 mm 2.756 in
Package Level 1 Depth / Length	225 mm 8.858 in
Package Level 1 Height	115 mm 4.528 in
Package Level 1 Width	220 mm 8.661 in
Package Level 1 Units	1 carton

Certificates and Declarations

Declaration of Conformity - CE	3AXD10001117584
REACH Date	20241203
REACH Declaration	9AKK107992A7060
REACH Information	True - contains substances > 0.1 mass percentage
RoHS Date	20230321
RoHS Information	3AXD10001117584
RoHS Status	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019

Technical

Number of Phases	3
Degree of Protection	IP20
Enclosure Type NEMA	Open Type
Altitude	2000 m 5 ... 95
Power Factor	0.98
Sound dB (A)	51.8 dB(A)
Multiple Battery Information	No battery / cell included
Frequency (f)	47 ... 63 Hz
Frame Size	R1
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)	9.8 A
Output Current, Light-Overload Use (I_{LD})	9.3 A
Output Current, Heavy-Duty Use (I_{HD})	7.4 A
Output Power, Normal Use (P_n)	2.2 kW
Output Power, Light-Overload Use (P_{LD})	2.2 kW
Output Power, Heavy-Duty Use (P_{HD})	1.5 kW
	76 W
Apparent Power Output	3.9 kV-A
Efficiency Level	IE2
Standby Loss	7 W
Complete Drive Module Efficiency (IEC61800-9-2)	

Operating Point Frequency / Current	Absolute Loss	Efficiency	Relative Loss
0/25 %	31 W	86.8 %	0.8 %
0/50 %	39 W	91.2 %	1.0 %
0/100 %	57 W	92.8 %	1.5 %
50/25 %	33 W	92.9 %	0.8 %
50/50 %	42 W	95.2 %	1.1 %
50/100 %	64 W	96.0 %	1.6 %
90/50 %	47 W	96.9 %	1.2 %
90/100 %	76 W	97.3 %	2.0 %

Temperature Rating Maximum 40 °C

Technical UL

Output Current, Heavy-Duty Use (UL)	7.5 A
Output Current, Light-Overload Use (UL)	9.6 A
Output Power, Heavy-Duty Use (UL)	2 Hp
Output Power, Light-Overload Use (UL)	2 Hp

External Classifications and Standards

ETIM 9

EC001857 - Frequency converter =< 1 kV

Environmental

SCIP

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WEEE Category

5. Small Equipment (No External Dimension More Than 50 cm)

Categories

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

