



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)
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-09A8-2

Ordering

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-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:	carton 1 piece

Technical

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 %

Number of Phases:	3-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):	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
Power Consumption (@P_{cons}):	76 W
Apparent Power Output:	3.9 kV·A
Efficiency Level:	IE2
Standby Loss:	7 W
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

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:	a8a72b30-d5e5-4de6-b0f8-01a627cfc18e 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

