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 PRODUCT-DETAILS

## ACS180-04S-09A4-4

LV AC machinery drive module, IEC: Pn 4 kW,  
9.4 A, 400 V, UL: Pld 5 Hp, 7.6 A, 460 V  
(ACS180-04S-09A4-4)




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**General Information**

Global Commercial Alias	ACS180-04S-09A4-4
Product ID	3AXD50000716685
ABB Type Designation	ACS180-04S-09A4-4
EAN	6438177649373
Catalog Description	LV AC machinery drive module, IEC: Pn 4 kW, 9.4 A, 400 V, UL: Pld 5 Hp, 7.6 A, 460 V (ACS180-04S-09A4-4)
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.

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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-09A4-4 PN: 4.0 kW, IN: 9.4 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)	50.9 dB(A)
Multiple Battery Information	No battery / cell included
Frequency (f)	47 ... 63 Hz
Frame Size	R1
Input Voltage (U <sub>in</sub> )	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 ( $I_n$ )	9.4 A
Output Current, Light-Overload Use ( $I_{LD}$ )	8.9 A
Output Current, Heavy-Duty Use ( $I_{HD}$ )	7.2 A
Output Power, Normal Use ( $P_n$ )	4 kW
Output Power, Light-Overload Use ( $P_{LD}$ )	4 kW
Output Power, Heavy-Duty Use ( $P_{HD}$ )	3 kW
Apparent Power Output	119 W 6.5 kV·A
Efficiency Level	IE2
Standby Loss	10 W
Complete Drive Module Efficiency (IEC61800-9-2)	

Operating Point Frequency / Current	Absolute Loss	Efficiency	Relative Loss
0/25 %	50 W	87.2 %	0.8 %
0/50 %	60 W	91.7 %	0.9 %
0/100 %	87 W	93.4 %	1.3 %
50/25 %	53 W	93.1 %	0.8 %
50/50 %	66 W	95.5 %	1.0 %
50/100 %	99 W	96.3 %	1.5 %
90/50 %	74 W	97.1 %	1.1 %
90/100 %	119 W	97.5 %	1.8 %

Temperature Rating Maximum 40 °C

### Technical UL

Output Current, Heavy-Duty Use (UL)	6.3 A
Output Current, Light-Overload Use (UL)	7.6 A
Output Power, Heavy-Duty Use (UL)	3 Hp
Output Power, Light-Overload Use (UL)	5 Hp

### External Classifications and Standards

ETIM 9 EC001857 - Frequency converter =< 1 kW

### Environmental

SCIP 5d07f008-496e-4abd-8f50-616cb485c791 Finland  
 WEEE Category 5. Small Equipment (No External Dimension More Than 50 cm)

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## Categories

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

