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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**


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<b>Global Commercial Alias:</b>	ACS180-04S-09A4-4
<b>Product ID:</b>	3AXD50000716685
<b>ABB Type Designation:</b>	ACS180-04S-09A4-4
<b>EAN:</b>	6438177649373
<b>Catalog Description:</b>	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)
<b>Long Description:</b>	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.
<b>Display Name:</b>	ACS180-04S-09A4-4

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**Ordering**


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<b>Customs Tariff Number:</b>	85044087
<b>HS Code:</b>	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
<b>Invoice Description:</b>	ACS180-04S-09A4-4 PN: 4 kW, IN: 9.4 A
<b>Made To Order:</b>	Yes
<b>Minimum Order Quantity:</b>	1 piece
<b>Order Multiple:</b>	1 piece
<b>Quote Only:</b>	No
<b>Selling Unit of Measure:</b>	piece

### Dimensions

<b>Product Net Weight:</b>	1.24 kg 2.734 lb
<b>Product Net Depth / Length:</b>	143 mm 5.630 in
<b>Product Net Height:</b>	220 mm 8.661 in
<b>Product Net Width:</b>	70 mm 2.756 in
<b>Package Level 1 Depth / Length:</b>	225 mm 8.858 in
<b>Package Level 1 Height:</b>	115 mm 4.528 in
<b>Package Level 1 Width:</b>	220 mm 8.661 in
<b>Package Level 1 Units:</b>	carton 1 piece

### Technical

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 %

<b>Number of Phases:</b>	3-phase
<b>Degree of Protection:</b>	IP20
<b>Enclosure Type NEMA:</b>	Open Type

<b>Altitude:</b>	2000 m
<b>Operating Humidity (RH<sub>amb</sub>):</b>	5 ... 95
<b>Power Factor:</b>	0.98
<b>Sound dB (A):</b>	50.9 dB(A)
<b>Multiple Battery Information:</b>	No battery / cell included
<b>Frequency (f):</b>	47 ... 63 Hz
<b>Frame Size:</b>	R1
<b>Input Voltage (U<sub>in</sub>):</b>	380 ... 480 V
<b>Mounting Type:</b>	Module
<b>Communication Protocol:</b>	MODBUS
<b>Number of Hardware Interfaces:</b>	Industrial Ethernet 0 Other 1 Parallel 0 PROFINET 0 RS-232 0 RS-422 0 RS-485 1 Serial TTY 0 USB 0
<b>Includes:</b>	Control unit PC connection
<b>Analog Inputs:</b>	2
<b>Analog Outputs:</b>	1
<b>Number of Digital In/Outputs:</b>	4 / 2
<b>Output Current, Normal Use (I<sub>n</sub>):</b>	9.4 A
<b>Output Current, Light-Overload Use (I<sub>LD</sub>):</b>	8.9 A
<b>Output Current, Heavy-Duty Use (I<sub>HD</sub>):</b>	7.2 A
<b>Output Power, Normal Use (P<sub>n</sub>):</b>	4 kW
<b>Output Power, Light-Overload Use (P<sub>LD</sub>):</b>	4 kW
<b>Output Power, Heavy-Duty Use (P<sub>HD</sub>):</b>	3 kW
<b>Power Consumption (@P<sub>cons</sub>):</b>	119 W
<b>Apparent Power Output:</b>	6.5 kV·A
<b>Efficiency Level:</b>	IE2
<b>Standby Loss:</b>	10 W
<b>Temperature Rating:</b>	Maximum 40 °C

## Technical UL

<b>Output Current, Heavy-Duty Use (UL):</b>	6.3 A
<b>Output Current, Light-Overload Use (UL):</b>	7.6 A
<b>Output Power, Heavy-Duty Use (UL):</b>	3 Hp
<b>Output Power, Light-Overload Use (UL):</b>	5 Hp

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### Certificates and Declarations

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<b>Declaration of Conformity - CE:</b>	3AXD10001117584
<b>REACH Date:</b>	20250905
<b>REACH Declaration:</b>	9AKK107992A7060
<b>REACH Information:</b>	True - contains substances > 0.1 mass percentage
<b>RoHS Date:</b>	20250106
<b>RoHS Declaration:</b>	3AXD10001117584
<b>RoHS Information:</b>	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019

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### Environmental

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

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### External Classifications and Standards

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<b>ETIM 9:</b>	EC001857 - Frequency converter =< 1 kV
<b>ETIM 10:</b>	EC001857 - Frequency converter =< 1 kV

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### Categories

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

