

PRODUCT-DETAILS

# ACS180-04N-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  
(ACS180-04N-09A4-4)



General Information	
Global Commercial Alias	ACS180-04N-09A4-4
Product ID	3AXD50000716555
ABB Type Designation	ACS180-04N-09A4-4
EAN	6438177649007
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 (ACS180-04N-09A4-4)
Long Description	The ACS180 is a compact, robust, and 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.

Ordering	
Country of Origin	China (CN)
Customs Tariff Number	85044085
Invoice Description	ACS180-04N-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

Container Information

Gross Volume	0.022 hl
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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

Technical

Number of Phases	3
Degree of Protection	IP20
Enclosure Type NEMA	Open Type
Altitude	1000 m
Power Factor	0.98
Sound dB (A)	50.90 dB(A)
Frequency (f)	47 ... 63 Hz
Frame Size	R1
Input Voltage (U <sub>in</sub> )	380 ... 480 V
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, Heavy-Duty Use (I <sub>HD</sub> )	7.2 A
Output Current, Light-	8.9 A

Overload Use ( $I_{LD}$ )	
Output Current, Normal Use ( $I_n$ )	9.4 A
Output Power, Heavy-Duty Use ( $P_{HD}$ )	3 kW
Output Power, Light-Overload Use ( $P_{LD}$ )	4 kW
Output Power, Normal Use ( $P_n$ )	4 kW
Apparent Power Output	6.5 kV·A
Efficiency Level	IE2
Standby Loss	9 W
Complete Drive Module Efficiency (61800-9-2)	

Operating Point Frequency / Current	Absolute Loss	Efficiency	Relative Loss
0/25 %	50 W	87.4 %	0.8 %
0/50 %	60 W	91.8 %	0.9 %
0/100 %	86 W	93.5 %	1.3 %
50/25 %	53 W	93.2 %	0.8 %
50/50 %	65 W	95.5 %	1.0 %
50/100 %	99 W	96.3 %	1.5 %
90/50 %	74 W	97.1 %	1.1 %
90/100 %	118 W	97.5 %	1.8 %

Temperature Rating	Maximum 40 °C
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Additional Information	
Product Main Type	ACS180-04N
Product Name	Frequency converter

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

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

