



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)



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.

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	2.734 lb
Product Net Depth / Length	5.630 in
Product Net Height	8.661 in
Product Net Width	2.756 in
Package Level 1 Depth / Length	8.858 in
Package Level 1 Height	4.528 in
Package Level 1 Width	8.661 in
Package Level 1 Units	1 carton

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_{in})	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
Analog Inputs	2
Analog Outputs	1
Number of Digital In/Outputs	4 / 2
Output Current, Normal	9.4 A
Use (I_N)	
Output Current, Light-Overload Use (I_{LD})	8.9 A
Output Current, Heavy-Duty Use (I_{HD})	7.2 A

Output Power, Normal	4 kW
Use (P_n)	
Output Power, Light-Overload Use (P_{LD})	4 kW
Output Power, Heavy-Duty Use (P_{HD})	3 kW
Apparent Power Output	6.5 kV·A
Efficiency Level	IE2
Standby Loss	10 W
Complete Drive Module Efficiency (61800-9-2)	

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
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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 8	EC001857 - Frequency converter =< 1 kV
ETIM 9	EC001857 - Frequency converter =< 1 kV

Environmental

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

Additional Information

Product Name	Frequency converter
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Categories

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

