



PRODUCT-DETAILS

# ACS180-04S-01A8-4

LV AC machinery drive module, IEC: Pn 0.55 kW, 1.8 A, 400 V, UL: Pld 0.75 Hp, 1.6 A, 460 V (ACS180-04S-01A8-4)



General Information	
Global Commercial Alias	ACS180-04S-01A8-4
Product ID	3AXD50000662562
ABB Type Designation	ACS180-04S-01A8-4
Catalog Description	LV AC machinery drive module, IEC: Pn 0.55 kW, 1.8 A, 400 V, UL: Pld 0.75 Hp, 1.6 A, 460 V (ACS180-04S-01A8-4)
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	
Customs Tariff Number	85044099
HS Code	850440-- Electrical transformers, static converters (for example, rectifiers) and inductors.- Static converters
Invoice Description	ACS180-04S-01A8-4 PN: 0.55kW, IN: 1.8A
Made To Order	No
Minimum Order Quantity	1 piece
Order Multiple	1 piece

Quote Only	No
Selling Unit of Measure	piece

## Dimensions

Product Net Weight	0.92 kg 2.028 lb
Product Net Depth / Length	143 mm 5.630 in
Product Net Height	209 mm 8.228 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

## Technical

Number of Phases	3
Degree of Protection	IP20
Enclosure Type NEMA	Open Type 5 ... 95
Power Factor	0.98
Multiple Battery Information	No battery / cell included
Frequency (f)	47 ... 63 Hz
Frame Size	R0
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 PC connection
Analog Inputs	2
Analog Outputs	1
Number of Digital In/Outputs	4 / 2
Output Current, Normal Use ( $I_n$ )	1.8 A
Output Current, Light-Overload Use ( $I_{LD}$ )	1.7 A
Output Current, Heavy-Duty Use ( $I_{HD}$ )	1.2 A
Output Power, Normal Use ( $P_n$ )	0.55 kW
Output Power, Light-	0.55 kW

Overload Use ( $P_{LD}$ )	
Output Power, Heavy-Duty Use ( $P_{HD}$ )	0.37 kW
Apparent Power Output	1.2 kV·A
Efficiency Level	IE2
Standby Loss	7 W
Complete Drive Module Efficiency (61800-9-2)	

Operating Point Frequency / Current	Absolute Loss	Efficiency	Relative Loss
0/25 %	15 W	84.1 %	1.2 %
0/50 %	16 W	88.8 %	1.2 %
0/100 %	18 W	92.5 %	1.4 %
50/25 %	16 W	91.4 %	1.3 %
50/50 %	16 W	94.0 %	1.3 %
50/100 %	19 W	95.9 %	1.6 %
90/50 %	18 W	96.3 %	1.4 %
90/100 %	22 W	97.4 %	1.8 %

Temperature Rating Maximum 40 °C

### Technical UL

Output Current, Heavy-Duty Use (UL)	1.1 A
Output Current, Light-Overload Use (UL)	1.6 A
Output Current, Normal Use (UL)	1.6 A
Output Power, Heavy-Duty Use (UL)	0.5 Hp
Output Power, Light-Overload Use (UL)	0.75 Hp
Output Power, Normal Use (UL)	0.75 Hp

### External Classifications and Standards

UNSPSC 39122001

### Environmental

WEEE Category 5. Small Equipment (No External Dimension More Than 50 cm)

### Additional Information

Product Name FREQUENCY CONVERTER

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## Categories

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

