

## PRODUCT-DETAILS

# ACS180-04S-07A8-2

LV AC machinery drive module, IEC: Pn 1.5 kW, 7.8 A, 230 V, UL: Pld 2 Hp, 7.5 A, 208 V (ACS180-04S-07A8-2)



## General Information

Global Commercial Alias	ACS180-04S-07A8-2
Product ID	3AXD50000827602
ABB Type Designation	ACS180-04S-07A8-2
EAN	6438177690535
Catalog Description	LV AC machinery drive module, IEC: Pn 1.5 kW, 7.8 A, 230 V, UL: Pld 2 Hp, 7.5 A, 208 V (ACS180-04S-07A8-2)
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

Country of Origin	China (CN) Finland (FI)
Customs Tariff Number	85044085
Invoice Description	ACS180-04S-07A8-2 PN: 1.5 kW, IN: 7.8 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

Technical	
Number of Phases	3
Degree of Protection	IP20
Enclosure Type NEMA	Open Type
Altitude	1000 m
Power Factor	0.98
Frequency (f)	47 ... 63 Hz
Frame Size	R1
Input Voltage (U <sub>in</sub> )	200 ... 240 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> )	6.6 A
Output Current, Light-Overload Use (I <sub>LD</sub> )	7.4 A
Output Current, Normal Use (I <sub>n</sub> )	7.8 A
Output Power, Heavy-Duty Use (P <sub>HD</sub> )	1.1 kW

Output Power, Light-Overload Use ( $P_{LD}$ )	1.5 kW
Output Power, Normal Use ( $P_n$ )	1.5 kW
Apparent Power Output	3.1 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 %	28 W	85.5 %	0.9 %
0/50 %	34 W	90.3 %	1.1 %
0/100 %	50 W	92.2 %	1.6 %
50/25 %	29 W	92.2 %	0.9 %
50/50 %	36 W	94.8 %	1.2 %
50/100 %	55 W	95.7 %	1.8 %
90/50 %	40 W	96.7 %	1.3 %
90/100 %	63 W	97.2 %	2.0 %

Temperature Rating	Maximum 40 °C
--------------------	---------------

Additional Information

Product Main Type	ACS180-04S
Product Name	Frequency converter

Classifications

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

Environmental

SCIP	a8a72b30-d5e5-4de6-b0f8-01a627cfc18e Finland (FI)
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)

Categories

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

