




---

 PRODUCT-DETAILS

## ACS180-04S-03A3-4

LV AC machinery drive module, IEC: Pn 1.1 kW,  
3.3 A, 400 V, UL: Pld 1.5 Hp, 3.0 A, 460 V  
(ACS180-04S-03A3-4)




---

**General Information**

Global Commercial Alias	ACS180-04S-03A3-4
Product ID	3AXD50000716647
ABB Type Designation	ACS180-04S-03A3-4
EAN	6438177649212

Catalog Description	LV AC machinery drive module, IEC: Pn 1.1 kW, 3.3 A, 400 V, UL: Pld 1.5 Hp, 3.0 A, 460 V (ACS180-04S-03A3-4)
---------------------	--

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**

Country of Origin	Viet Nam (VN) Finland (FI) United States (US)
Customs Tariff Number	85044085
HS Code	850440-- Electrical transformers, static converters (for example, rectifiers)

and inductors.- Static converters

Invoice Description	ACS180-04S-03A3-4 PN: 1.1 kW, IN: 3.3 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	2.028 lb
Product Net Depth / Length	5.630 in
Product Net Height	8.228 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
Multiple Battery Information	No battery / cell included
Frequency (f)	47 ... 63 Hz
Frame Size	R0
Input Voltage (U <sub>in</sub> )	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 Use (I <sub>n</sub> )	3.3 A
Output Current, Light-Overload Use (I <sub>LD</sub> )	3.1 A
Output Current, Heavy-	2.4 A

Duty Use ( $I_{HD}$ )	
Output Power, Normal	1.1 kW
Use ( $P_n$ )	
Output Power, Light-Overload Use ( $P_{LD}$ )	1.1 kW
Duty Use ( $P_{HD}$ )	
Output Power, Heavy-Duty Use	0.75 kW
Apparent Power Output	
	2.3 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 %	19 W	86.5 %	0.8 %
0/50 %	22 W	91.5 %	0.9 %
0/100 %	29 W	93.8 %	1.3 %
50/25 %	20 W	92.7 %	0.9 %
50/50 %	23 W	95.4 %	1.0 %
50/100 %	32 W	96.6 %	1.4 %
90/50 %	26 W	97.1 %	1.1 %
90/100 %	38 W	97.7 %	1.6 %

Temperature Rating Maximum 40 °C

### Technical UL

Output Current, Heavy-Duty Use (UL)	2.1 A
Output Current, Light-Overload Use (UL)	3.0 A
Output Current, Normal Use (UL)	3.0 A
Output Power, Heavy-Duty Use (UL)	1 Hp
Output Power, Light-Overload Use (UL)	1.5 Hp
Output Power, Normal Use (UL)	1.5 Hp

### External Classifications and Standards

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

### Environmental

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

### Additional Information

Product Name Frequency converter

---

## Categories

---

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

