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 PRODUCT-DETAILS

## ACS180-04S-03A7-2

LV AC machinery drive module, IEC: Pn 0.55 kW, 3.7 A, 230 V, UL: Pld 0.75 Hp, 3.5 A, 208 V (ACS180-04S-03A7-2)




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**General Information**

Global Commercial Alias	ACS180-04S-03A7-2
Product ID	3AXD50000827510
ABB Type Designation	ACS180-04S-03A7-2
EAN	6438177690443
Catalog Description	LV AC machinery drive module, IEC: Pn 0.55 kW, 3.7 A, 230 V, UL: Pld 0.75 Hp, 3.5 A, 208 V (ACS180-04S-03A7-2)

## 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.

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**Ordering**

Customs Tariff Number	85044085
HS Code	850440-- Electrical transformers, static converters (for example, rectifiers) and inductors.- Static converters
Invoice Description	ACS180-04S-03A7-2 PN: 0.55 kW, IN: 3.7 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	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

## Certificates and Declarations

Declaration of Conformity - CE	3AXD10001117584
REACH Date	20241203
REACH Declaration	9AKK107992A7060
REACH Information	True - contains substances > 0.1 mass percentage
RoHS Date	20230321
RoHS Information	3AXD10001117584
RoHS Status	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019

## 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> )	200 ... 240 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 ( $I_n$ )	3.7 A
Output Current, Light-Overload Use ( $I_{LD}$ )	3.5 A
Output Current, Heavy-Duty Use ( $I_{HD}$ )	2.3 A
Output Power, Normal Use ( $P_n$ )	0.55 kW
Output Power, Light-Overload Use ( $P_{LD}$ )	0.55 kW
Output Power, Heavy-Duty Use ( $P_{HD}$ )	0.37 kW
	37 W
Apparent Power Output	1.5 kV-A
Efficiency Level	IE2
Standby Loss	7 W
Complete Drive Module Efficiency (IEC61800-9-2)	

Operating Point Frequency / Current	Absolute Loss	Efficiency	Relative Loss
0/25 %	17 W	82.1 %	1.2 %
0/50 %	20 W	88.1 %	1.4 %
0/100 %	29 W	90.7 %	2.0 %
50/25 %	18 W	90.1 %	1.2 %
50/50 %	22 W	93.5 %	1.5 %
50/100 %	32 W	94.8 %	2.2 %
90/50 %	25 W	95.8 %	1.7 %
90/100 %	37 W	96.5 %	2.5 %

Temperature Rating Maximum 40 °C

### Technical UL

Output Current, Heavy-Duty Use (UL)	2.4 A
Output Current, Light-Overload Use (UL)	3.5 A
Output Current, Normal Use (UL)	- 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

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### External Classifications and Standards

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ETIM 9

EC001857 - Frequency converter =< 1 kV

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### Environmental

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WEEE Category

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

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### Categories

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

