

## PRODUCT-DETAILS

# ACS580-01-012A-2+B056

LV AC general purpose wall-mounted drive,  
IEC: Pn 3 kW, 12 A, 230 V (ACS580-01-012A-  
2+B056)



## General Information

Global Commercial Alias	ACS580-01-012A-2+B056
Product ID	3AXD50000417520
ABB Type Designation	ACS580-01-012A-2+B056
EAN	6438177591344
Catalog Description	LV AC general purpose wall-mounted drive, IEC: Pn 3 kW, 12 A, 230 V (ACS580-01-012A-2+B056)
Long Description	<p>The ACS580-01 is plug-in ready to control your compressors, conveyors, pumps, extruders, centrifuges, mixers, fans and many other variable and constant torque applications, in a variety of light industries, including food and beverage, plastic, textile, material handling, and agriculture.</p> <p>All essential features are built-in as standard, simplifying drive selection, and making additional hardware unnecessary. Versatile and straightforward settings menu and assistants enable fast setup, commissioning, use and maintenance, while rugged and robust design makes it a good fit for various environments. With the ACS580 drives you can easily take full control of your processes to comprehensively manage your plant. The wall-mounted ACS580-01 comes in IP21 enclosure as standard. Also, IP55 and flange mounting units are available.</p>

## Ordering

Country of Origin	Finland (FI)
Customs Tariff Number	850440
Invoice Description	ACS580-01-012A-2+B056 PN: 3.0 kW, IN: 12.0 A

Made To Order	Yes
Minimum Order Quantity	1 piece
Order Multiple	1 piece
Quote Only	No
Selling Unit of Measure	piece

Container Information

Gross Volume	12.019 dm³
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Dimensions

Product Net Weight	4.8 kg 10.582 lb
Product Net Depth / Length	233 mm 9.173 in
Product Net Height	403 mm 15.866 in
Product Net Width	128 mm 5.039 in
Package Level 1 Depth / Length	225.00 mm 8.858 in
Package Level 1 Height	370.00 mm 14.567 in
Package Level 1 Width	526.00 mm 20.709 in

Technical

Number of Phases	3
Degree of Protection	IP55
Enclosure Type NEMA	Type12
	95
Multiple Battery Information	Lithium Coin, CR2032, 220 mAh, 3 V, 1 pc, 3 g
Frequency (f)	47.5 ... 63 Hz
Frame Size	R1
Input Voltage (U <sub>in</sub> )	200 ... 240 V
Communication Protocol	CAN DeviceNet EtherNet/IP MODBUS Other Bus Systems PROFIBUS PROFINET IO TCP/IP
Number of Hardware Interfaces	Industrial Ethernet 0 Other 2 Parallel 2 PROFINET 0 RS-232 0 RS-422 0 RS-485 1 Serial TTY 0 USB 1
Includes	With control unit Without optical interface With PC connection

Analog Inputs	2
Analog Outputs	2
Number of Digital In/Outputs	6 / 3
Output Current, Heavy-Duty Use ( $I_{HD}$ )	7.5 A
Output Current, Light-Overload Use ( $I_{LD}$ )	11.8 A
Output Current, Normal Use ( $I_n$ )	12 A
Output Power, Heavy-Duty Use ( $P_{HD}$ )	2.2 kW
Output Power, Light-Overload Use ( $P_{LD}$ )	3.0 kW
Output Power, Normal Use ( $P_n$ )	3 kW
Apparent Power Output	4.8 kV·A
Efficiency Level	IE2
Standby Loss	13 W
Complete Drive Module Efficiency (61800-9-2)	

Operating Point Frequency / Current	Absolute Loss	Efficiency	Relative Loss
0/25 %	56 W	81.9 %	1.2 %
0/50 %	67 W	87.9 %	1.4 %
0/100 %	95 W	90.5 %	2.0 %
50/25 %	59 W	89.9 %	1.2 %
50/50 %	73 W	93.3 %	1.5 %
50/100 %	111 W	94.4 %	2.3 %
90/50 %	85 W	95.6 %	1.8 %
90/100 %	143 W	96.0 %	3.0 %

Temperature Rating	Maximum 40 °C Minimum -15 °C
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Additional Information

Product Main Type	ACS580-01
Product Name	Frequency converter

Classifications

ETIM 8	EC001857 - Frequency converter =< 1 kV
ETIM 9	EC001857 - Frequency converter =< 1 kV
UNSPSC	39122001

Environmental

SCIP	12216470-2923-46fb-9b3c-c7084d490da0 Finland (FI)
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 → General Purpose Drives → ACS580-01 - Wall-mounted drive

