



PRODUCT-DETAILS

# ACS580-01-12A7-4

LV AC general purpose wall-mounted drive, IEC:  
Pn 5.5 kW, 12.6 A, 400 V (ACS580-01-12A7-4)



General Information	
Global Commercial Alias	ACS580-01-12A7-4
Product ID	3AXD50000038953
ABB Type Designation	ACS580-01-12A7-4
EAN	6438177459231
Catalog Description	LV AC general purpose wall-mounted drive, IEC: Pn 5.5 kW, 12.6 A, 400 V (ACS580-01-12A7-4)
Long Description	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. 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.

Ordering	
Customs Tariff Number	85044086
HS Code	850440-- Electrical transformers, static converters (for example, rectifiers) and inductors.- Static converters

Invoice Description	ACS580-01-12A7-4 PN: 5.5 kW, IN: 12.6 A
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	4.6 kg 10.141 lb
Product Net Depth / Length	223 mm 8.780 in
Product Net Height	373 mm 14.685 in
Product Net Width	125 mm 4.921 in
Package Level 1 Depth / Length	550 mm 21.65 in
Package Level 1 Height	325 mm 12.80 in
Package Level 1 Width	220 mm 8.66 in
Package Level 1 Units	1 carton

## Certificates and Declarations

Declaration of Conformity - CE	3AXD10001818627
REACH Date	20250320
REACH Declaration	9AKK107992A7060
REACH Information	True - contains substances > 0.1 mass percentage
RoHS Date	20240508
RoHS Information	3AXD10001818627
RoHS Status	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019

## Technical

Number of Phases	3-phase
Degree of Protection	IP21
Enclosure Type NEMA	Type1
Altitude	1000 m
	5 ... 95
Sound dB (A)	59 dB(A)
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> )	380 ... 480 V
Mounting Type	Wall-mounted
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	Control unit PC connection
Analog Inputs	2
Analog Outputs	2
Number of Digital In/Outputs	6 / 3
Output Current, Normal Use ( $I_n$ )	12.6 A
Output Current, Light-Overload Use ( $I_{LD}$ )	12.0 A
Output Current, Heavy-Duty Use ( $I_{HD}$ )	9.4 A
Output Power, Normal Use ( $P_n$ )	5.5 kW
Output Power, Light-Overload Use ( $P_{LD}$ )	5.5 kW
Output Power, Heavy-Duty Use ( $P_{HD}$ )	4.0 kW
Apparent Power Output	213 W
Efficiency Level	8.7 kV·A
Standby Loss	IE2
Complete Drive Module Efficiency (IEC61800-9-2)	14 W

Operating Point Frequency / Current	Absolute Loss	Efficiency	Relative Loss
0/25 %	68 W	87.1 %	0.8 %
0/50 %	88 W	91.0 %	1.0 %
0/100 %	157 W	91.9 %	1.8 %
50/25 %	73 W	93.0 %	0.8 %
50/50 %	98 W	95.0 %	1.1 %
50/100 %	178 W	95.4 %	2.0 %
90/50 %	108 W	96.9 %	1.2 %
90/100 %	213 W	96.9 %	2.4 %

Temperature Rating Maximum 40 °C  
Minimum -15 °C

**External Classifications and Standards**

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

**Environmental**

SCIP a5c3dd71-8ecd-44d9-98e4-45c53b6836e1 Finland  
 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

