



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)
---------------------	--

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.

Long Description

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

Country of Origin	Romania (RO) Finland (FI)
-------------------	------------------------------

	China (CN)
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	10.141 lb
Product Net Depth / Length	8.78 in
Product Net Height	14.69 in
Product Net Width	4.92 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
Package Level 1 Units	1 carton

Technical

Number of Phases	3
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_{in})	380 ... 480 V
Mounting Type	Wall-mounted
Communication Protocol	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-	9.4 A

Duty Use (I_{HD})	
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	8.7 kV·A
Efficiency Level	IE2
Standby Loss	14 W
Complete Drive Module Efficiency (61800-9-2)	

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

Environmental	
SCIP	a5c3dd71-8ecd-44d9-98e4-45c53b6836e1 Finland (FI)
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)

Additional Information	
Product Name	Frequency converter

Categories	
------------	--

Drives → Low Voltage AC Drives → General Purpose Drives → ACS580-01 - Wall-mounted drive

