

PRODUCT-DETAILS

# ACS580-01-046A-4

LV AC general purpose wall-mounted drive,  
IEC: Pn 22 kW, 45 A, 400 V, 480 V (ACS580-01-046A-4)



General Information	
Global Commercial Alias	ACS580-01-046A-4
Product ID	3AXD50000038963
ABB Type Designation	ACS580-01-046A-4
EAN	6438177459286
Catalog Description	LV AC general purpose wall-mounted drive, IEC: Pn 22 kW, 45 A, 400 V, 480 V (ACS580-01-046A-4)
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	Romania (RO) Finland (FI) China (CN)

Customs Tariff Number	85044086
Invoice Description	ACS580-01-046A-4 PN: 22 kW, IN: 45 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	22.779 dm³
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Dimensions

Product Net Weight	11.8 kg 26.015 lb
Product Net Depth / Length	229.00 mm 9.02 in
Product Net Height	490.00 mm 19.29 in
Product Net Width	203.00 mm 7.99 in
Package Level 1 Depth / Length	295.00 mm 11.614 in
Package Level 1 Height	390.00 mm 15.354 in
Package Level 1 Width	600.00 mm 23.622 in
Package Level 1 Units	1 carton

Technical

Number of Phases	3
Degree of Protection	IP21
Enclosure Type NEMA	Type1
Altitude	1000 m 95
Sound dB (A)	76 dB(A)
Multiple Battery Information	Lithium Coin, CR2032, 220 mAh, 3 V, 1 pc, 3 g
Frequency (f)	47.5 ... 63 Hz
Frame Size	R3
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, Heavy- Duty Use ( $I_{HD}$ )	37.7 A
Output Current, Light- Overload Use ( $I_{LD}$ )	42.8 A
Output Current, Normal Use ( $I_n$ )	45 A
Output Power, Heavy- Duty Use ( $P_{HD}$ )	18.5 kW
Output Power, Light- Overload Use ( $P_{LD}$ )	22.0 kW
Output Power, Normal Use ( $P_n$ )	22 kW
Apparent Power Output	31 kV-A
Efficiency Level	IE2
Standby Loss	16 W
Complete Drive Module Efficiency (61800-9-2)	

Operating Point Frequency / Current	Absolute Loss	Efficiency	Relative Loss
0/25 %	200 W	89.2 %	0.6 %
0/50 %	260 W	92.5 %	0.8 %
0/100 %	459 W	93.3 %	1.5 %
50/25 %	216 W	94.1 %	0.7 %
50/50 %	290 W	95.8 %	0.9 %
50/100 %	534 W	96.1 %	1.7 %
90/50 %	328 W	97.3 %	1.1 %
90/100 %	672 W	97.3 %	2.2 %

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

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**Environmental**

SCIP	8e1cd225-4cd2-4db1-8a7b-419a51ce1ae3 Finland (FI)
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)

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**Categories**

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

