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 PRODUCT-DETAILS

## ACS580-01-089A-4

LV AC general purpose wall-mounted drive,  
IEC: Pn 45 kW, 89 A, 400 V (ACS580-01-089A-4)




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**General Information**

Global Commercial Alias	ACS580-01-089A-4
Product ID	3AXD50001062606
ABB Type Designation	ACS580-01-089A-4
EAN	6438177709022

Catalog Description	LV AC general purpose wall-mounted drive, IEC: Pn 45 kW, 89 A, 400 V (ACS580-01-089A-4)
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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. All essential features are built-in as standard, simplifying drive selection, and making additional hardware unnecessary.</p> <p>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>
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**Ordering**

Customs Tariff Number	850440
HS Code	850440-- Electrical transformers, static converters (for example, rectifiers) and inductors.- Static converters
Invoice Description	ACS580-01-089A-4 PN: 45 kW, IN: 89 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	22 kg 48.502 lb
Product Net Depth / Length	257 mm 10.118 in
Product Net Height	636 mm 25.039 in
Product Net Width	203 mm 7.992 in
Package Level 1 Depth / Length	794 mm 31.260 in
Package Level 1 Height	358 mm 14.094 in
Package Level 1 Width	278 mm 10.945 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	4000 m 5 ... 95
Sound dB (A)	70 dB(A)
Multiple Battery Information	Lithium Coin, CR2032, 220 mAh, 3 V, 1 pc, 3 g
Frequency (f)	47.5 ... 63 Hz
Frame Size	R4
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 ( $I_n$ )	89 A
Output Current, Light-Overload Use ( $I_{LD}$ )	83 A
Output Current, Heavy-Duty Use ( $I_{HD}$ )	72 A
Output Power, Normal Use ( $P_n$ )	45 kW
Output Power, Light-Overload Use ( $P_{LD}$ )	45 kW
Output Power, Heavy-Duty Use ( $P_{HD}$ )	37 kW
	1028 W
Apparent Power Output	62 kV-A
Efficiency Level	IE2
Standby Loss	21 W
Complete Drive Module Efficiency (IEC61800-9-2)	

Operating Point Frequency / Current	Absolute Loss	Efficiency	Relative Loss
0/25 %	292 W	92.0 %	0.5 %
0/50 %	413 W	94.0 %	0.7 %
0/100 %	783 W	94.2 %	1.3 %
50/25 %	319 W	95.6 %	0.5 %
50/50 %	468 W	96.6 %	0.8 %
50/100 %	901 W	96.7 %	1.5 %
90/50 %	518 W	97.9 %	0.8 %
90/100 %	1059 W	97.8 %	1.7 %

Temperature Rating	Maximum 40 °C Minimum -15 °C
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### External Classifications and Standards

ETIM 9

EC001857 - Frequency converter =< 1 kV

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## Environmental

SCIP

5f7a2ba9-ac26-45aa-b6b8-92237e07b94f Finland

WEEE Category

4. Large Equipment (Any External Dimension More Than 50 cm)

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## Categories

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

