



 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)



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.</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>
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Ordering

Country of Origin	Finland (FI)
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

Container Information

Gross Volume	33.181 dm ³
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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 7.99 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

Technical

Number of Phases	3
Degree of Protection	IP21
Enclosure Type NEMA	Type1
Altitude	1000 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 _{in})	380 ... 480 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	Control unit PC connection
Analog Inputs	2
Analog Outputs	2
Number of Digital In/Outputs	6 / 3
Output Current, Heavy-Duty Use (I_{HD})	72 A
Output Current, Light-Overload Use (I_{LD})	83 A
Output Current, Normal Use (I_n)	89 A
Output Power, Heavy-Duty Use (P_{HD})	37 kW
Output Power, Light-Overload Use (P_{LD})	45 kW
Output Power, Normal Use (P_n)	45 kW
Apparent Power Output	62 kV·A
Efficiency Level	IE2
Standby Loss	21 W
Complete Drive Module Efficiency (61800-9-2)	

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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Classifications

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

Environmental

WEEE Category	4. Large Equipment (Any External Dimension More Than 50 cm)
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Additional Information

Product Main Type	ACS580-01
Product Name	Frequency converter

Categories

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

