



 PRODUCT-DETAILS

ACS580-01-169A-4

LV AC general purpose wall-mounted drive, IEC: Pn 90 kW, 169 A, 400 V (ACS580-01-169A-4)



General Information

Global Commercial Alias	ACS580-01-169A-4
Product ID	3AUA0000080505
ABB Type Designation	ACS580-01-169A-4
EAN	6438177305613

Catalog Description	LV AC general purpose wall-mounted drive, IEC: Pn 90 kW, 169 A, 400 V (ACS580-01-169A-4)
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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

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

inductors.- Static converters

Invoice Description	ACS580-01-169A-4 PN: 90 kW, IN: 169 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	54 kg 119.050 lb
Product Net Depth / Length	370 mm 14.567 in
Product Net Height	880 mm 34.646 in
Product Net Width	284 mm 11.181 in
Package Level 1 Depth / Length	992 mm 39.055 in
Package Level 1 Height	598 mm 23.54 in
Package Level 1 Width	400 mm 15.748 in
Package Level 1 Units	1 case

Certificates and Declarations

Declaration of Conformity - CE	3AXD10001818627
REACH Date	20241203
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
Degree of Protection	IP21
Enclosure Type NEMA	Type1
Altitude	1000 m 5 ... 95
Sound dB (A)	67 dB(A)
Multiple Battery Information	Lithium Coin, CR2032, 220 mAh, 3 V, 1 pc, 3 g
Frequency (f)	47.5 ... 63 Hz
Frame Size	R7
Input Voltage (U _{in})	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)	169 A
Output Current, Light-Overload Use (I_{LD})	161 A
Output Current, Heavy-Duty Use (I_{HD})	145 A
Output Power, Normal Use (P_n)	90 kW
Output Power, Light-Overload Use (P_{LD})	90 kW
Output Power, Heavy-Duty Use (P_{HD})	75 kW
Apparent Power Output	2021 W 117 kV-A
Efficiency Level	IE2
Standby Loss	36 W
Complete Drive Module Efficiency (IEC61800-9-2)	

Operating Point Frequency / Current	Absolute Loss	Efficiency	Relative Loss
0/25 %	556 W	92.0 %	0.5 %
0/50 %	754 W	94.2 %	0.6 %
0/100 %	1317 W	94.8 %	1.1 %
50/25 %	611 W	95.6 %	0.5 %
50/50 %	860 W	96.7 %	0.7 %
50/100 %	1547 W	97.0 %	1.3 %
90/50 %	1013 W	97.8 %	0.9 %
90/100 %	2021 W	97.8 %	1.7 %

Temperature Rating Maximum 40 °C
Minimum -15 °C

External Classifications and Standards

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

Environmental

SCIP	71e4e108-7fa3-4fef-ae88-63d19649578b Finland
WEEE Category	4. Large Equipment (Any External Dimension More Than 50 cm)

Categories

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

