



 PRODUCT-DETAILS

ACS580-01-046A-4

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

Long Description

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. 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 MACHINERY AND EQUIPMENT AND PARTS THEREOF; SOUND RECORDERS AND REPRODUCERS, TELEVISION IMAGE AND SOUND RECORDERS AND REPRODUCERS, AND PARTS AND

ACCESSORIES OF SUCH ARTICLES;Electrical transformers, static converters
(for example, rectifiers) and inductors;Static converters

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

Dimensions

Product Net Weight	11.8 kg 26.015 lb
Product Net Depth / Length	229 mm 9.016 in
Product Net Height	490 mm 19.291 in
Product Net Width	203 mm 7.992 in
Package Level 1 Depth / Length	679 mm 26.73 in
Package Level 1 Height	325 mm 12.80 in
Package Level 1 Width	290 mm 11.42 in
Package Level 1 Units	1 carton

Technical

Number of Phases	3-phase
Degree of Protection	IP21
Enclosure Type NEMA	Type1
Altitude	1000 m
	5 ... 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 _{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)	45 A
Output Current, Light-Overload Use (I_{LD})	42.8 A
Output Current, Heavy-Duty Use (I_{HD})	37.7 A
Output Power, Normal Use (P_n)	22 kW
Output Power, Light-Overload Use (P_{LD})	22.0 kW
Output Power, Heavy-Duty Use (P_{HD})	18.5 kW
Apparent Power Output	672 W
Efficiency Level	31 kV-A
Standby Loss	IE2
Complete Drive Module Efficiency (IEC61800-9-2)	16 W

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

Certificates and Declarations

Declaration of Conformity - CE	3AXD10001818627
REACH Date	20250905
REACH Declaration	9AKK107992A7060
REACH Information	True - contains substances > 0.1 mass percentage
RoHS Date	20240508
RoHS Declaration	3AXD10001818627
RoHS Information	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019

Environmental

Global Warming Potential GWP Total	Distribution (Module A4) 3 kg CO ₂ eq End of Life (Modules C1-C4) 36 kg CO ₂ eq Installation (Module A5) 42 kg CO ₂ eq Manufacturing (Modules A1-A3) 248 kg CO ₂ eq Total 7122 kg CO ₂ eq Use (Modules B1-B7) 6794 kg CO ₂ eq
SCIP	8e1cd225-4cd2-4db1-8a7b-419a51ce1ae3 Finland
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)

External Classifications and Standards

ETIM 9

EC001857 - Frequency converter =< 1 kV

ETIM 10

EC001857 - Frequency converter =< 1 kV

UNSPSC

39122001

Categories

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



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