

PRODUCT-DETAILS

ACS580-01-171A-2

LV AC general purpose wall-mounted drive,
IEC: Pn 45 kW, 171 A, 230 V (ACS580-01-171A-2)



General Information

Global Commercial Alias	ACS580-01-171A-2
Product ID	3AXD50000417469
ABB Type Designation	ACS580-01-171A-2
EAN	6438177591283
Catalog Description	LV AC general purpose wall-mounted drive, IEC: Pn 45 kW, 171 A, 230 V (ACS580-01-171A-2)
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	United States (US) Finland (FI)
Customs Tariff Number	85044085
Invoice Description	ACS580-01-171A-2 PN: 45 kW, IN: 171 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	92.47 dm³
--------------	-----------

Dimensions

Product Net Weight	54 kg 119.050 lb
Product Net Depth / Length	370.00 mm 14.57 in
Product Net Height	880.00 mm 34.65 in
Product Net Width	284.00 mm 11.18 in
Package Level 1 Depth / Length	992.00 mm
Package Level 1 Height	568.00 mm
Package Level 1 Width	400.00 mm

Technical

Number of Phases	3
Degree of Protection	IP21
Enclosure Type NEMA	Type1
Altitude	1000 m 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})	200 ... 240 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})	143 A
Output Current, Light-Overload Use (I_{LD})	169 A
Output Current, Normal Use (I_n)	171 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	68 kV·A
Efficiency Level	IE2
Standby Loss	22 W
Complete Drive Module Efficiency (61800-9-2)	

Operating Point Frequency / Current	Absolute Loss	Efficiency	Relative Loss
0/25 %	503 W	88.0 %	0.7 %
0/50 %	694 W	91.1 %	1.0 %
0/100 %	1264 W	91.8 %	1.9 %
50/25 %	552 W	93.3 %	0.8 %
50/50 %	792 W	94.9 %	1.2 %
50/100 %	1491 W	95.2 %	2.2 %
90/50 %	951 W	96.6 %	1.4 %
90/100 %	2000 W	96.3 %	2.9 %

Temperature Rating	Maximum 40 °C Minimum -15 °C
--------------------	---------------------------------

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

Environmental

SCIP	cdfd6c1b-d797-41db-b2a0-2e3d5e5a1071 Finland (FI)
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

