PRODUCT-DETAILS

ACS880-01-145A-3

LV AC industrial wall-mounted single drive, IEC: Pn 75 kW, 145 A, 400 V (ACS880-01-145A-3)

General Information

Global Commercial Alias	ACS880-01-145A-3
Product ID	3AUA0000108026
ABB Type Designation	ACS880-01-145A-3
EAN	6438177558699
Catalog Description	LV AC industrial wall-mounted single drive, IEC: Pn 75 kW, 145 A, 400 V (ACS880-01-145A-3)
Long Description	The ACS880-01 drives are customized to meet the particular needs of specific industries, such as oil and gas, mining, metals, chemicals, cement, power plants, material handling, pulp and paper, sawmills, marine, water and wastewater, food and beverage, and automotive. They can control a wide range of applications, including cranes, extruders, winches, winders, conveyors, mixers, compressors, centrifuges, test benches, elevators, extruders, pumps and fans. The ACS880-01 comes in one compact package for easy installation and commissioning. The drive can be installed on the wall as standard and in a cabinet as an option. The drive offering includes enclosure classes up to IP55, making it suitable for most environments and installations. ACS880-01 drives have all the essential features built-in. These features include as standard a choke for harmonic filtering as well as options like a brake chopper, EMC filter and communication protocol adapter, functional safety, external output filters and I/O extension modules.

Ordering

Country of Origin	Finland (FI)
Customs Tariff Number	85044086
HS Code	850440-- Electrical transformers, static converters (for example, rectifiers) and inductors.- Static converters
Invoice Description	ACS880-01-145A-3 PN: 75 kW, IN: 145 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	42.2 kg 93.035 lb
Product Net Depth / Length	14.055 in
Product Net Height	28.622 in
Product Net Width	9.921 in
Package Level 1 Depth / Length	34.25 in
Package Level 1 Height	22.76 in
Package Level 1 Width	12.80 in
Package Level 1 Units	1 case

Technical

Number of Phases	3
Degree of Protection	IP21
Enclosure Type NEMA	Type1
Altitude	4000 m
	5 ... 95
Sound dB (A)	68 dB(A)
Multiple Battery Information	Lithium Coin, CR2032, 220 mAh, 3 V, 2 pcs, 6 g
Frequency (f)	47.5 ... 63 Hz
Frame Size	R6
Input Voltage (U_{in})	380 ... 415 V
Mounting Type	Wall-mounted
Communication Protocol	PROFINET IO
Number of Hardware Interfaces	Industrial Ethernet 0 Other 4 Parallel 0 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 / 2

Output Current, Normal Use (I_n)	145 A
Output Current, Light-Overload Use (I_{LD})	138 A
Output Current, Heavy-Duty Use (I_{HD})	105 A
Output Power, Normal Use (P_n)	75 kW
Output Power, Light-Overload Use (P_{LD})	75 kW
Output Power, Heavy-Duty Use (P_{HD})	55 kW
Apparent Power Output	100 kV·A
Efficiency Level	IE2
Standby Loss	42 W

Complete Drive Module Efficiency (61800-9-2)

Operating Point Frequency / Current	Absolute Loss	Relative Loss	Efficiency
0 / 25 %	471 W	0.5 %	92.1 %
0 / 50 %	678 W	0.7 %	93.9 %
0 / 100 %	1228 W	1.2 %	94.4 %
50 / 25 %	523 W	0.5 %	95.6 %
50 / 50 %	776 W	0.8 %	96.6 %
50 / 100 %	1460 W	1.5 %	96.7 %
90 / 50 %	929 W	0.9 %	97.7 %
90 / 100 %	1962 W	2.0 %	97.5 %

Temperature Rating	Maximum 40 °C

External Classifications and Standards

ETIM 8	EC001857 - Frequency converter =< 1 kV
ETIM 9	EC001857 - Frequency converter =< 1 kV
UNSPSC	39122001

Environmental

SCIP	7e21750f-ecc9-4507-b99f-889ae4fa8d33 Finland (FI)
WEEE Category	4. Large Equipment (Any External Dimension More Than 50 cm)

Additional Information

Product Name	Frequency converter

Categories

Drives → Low Voltage AC Drives → Industrial Drives → ACS880 Single Drives → ACS880-01 - Wall-mounted single drive