PRODUCT-DETAILS

ACS880-01-040A-5

LV AC industrial wall-mounted single drive, IEC: Pn 22 kW, 40 A, 500 V, UL: Pld 30 Hp, 40 A, 480 V (ACS880-01-040A-5)

General Information

Global Commercial Alias:	ACS880-01-040A-5
Product ID:	3AUA0000090438
ABB Type Designation:	ACS880-01-040A-5
EAN:	6438177557609
Catalog Description:	LV AC industrial wall-mounted single drive, IEC: Pn 22 kW, 40 A, 500 V, UL: Pld 30 Hp, 40 A, 480 V (ACS880-01-040A-5)
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.

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Display Name:	ACS880-01-040A-5

Ordering

Customs Tariff Number:	85044087
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:	ACS880-01-040A-5 PN: 22 kW, IN: 40 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:	18.6 kg 41.006 lb
Product Net Depth / Length:	274 mm 10.787 in
Product Net Height:	580 mm 22.835 in
Product Net Width:	203 mm 7.992 in
Package Level 1 Depth / Length:	691 mm 27.205 in
Package Level 1 Height:	329 mm 12.953 in
Package Level 1 Width:	290 mm 11.417 in
Package Level 1 Units:	1 carton

Technical

Operating Point Frequency / Current	Absolute Loss	Relative Loss	Efficiency
0 / 25 %	147 W	0.4 %	92.6 %
0 / 50 %	187 W	0.5 %	95.0 %
0 / 100 %	312 W	0.9 %	95.8 %
50 / 25 %	157 W	0.5 %	96.0 %
50 / 50 %	209 W	0.6 %	97.3 %
50 / 100 %	359 W	1.0 %	97.6 %
90 / 50 %	234 W	0.7 %	98.3 %
90 / 100 %	424 W	1.2 %	98.4 %

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Number of Phases:	3-phase
Degree of Protection:	IP21
Enclosure Type NEMA:	Type1
Altitude:	4000 m
Operating Humidity (RH_{amb}):	5 … 95 %
Sound dB (A):	64 dB(A)
Multiple Battery Information:	Lithium Coin, CR2032, 220 mAh, 3 V, 2 pcs, 6 g
Frequency (f):	47.5 ... 63 Hz
Frame Size:	R4
Input Voltage (U_{in}):	380 ... 500 V
Mounting Type:	Wall-mounted
Communication Protocol:	CAN DeviceNet EtherNet/IP MODBUS Other Bus Systems PROFIsafe PROFIBUS 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):	40 A
Output Current, Light-Overload Use (I_{LD}):	38 A
Output Current, Heavy-Duty Use (I_{HD}):	34 A
Output Power, Normal Use (P_n):	22 kW
Output Power, Light-Overload Use (P_{LD}):	22 kW
Output Power, Heavy-Duty Use (P_{HD}):	19 kW
Power Consumption (@P_{cons}):	424 W
Apparent Power Output:	35 kV·A
Efficiency Level:	IE2
Standby Loss:	31 W

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Temperature Rating:	Maximum 40 °C

Technical UL

Output Current, Light-Overload Use (UL):	40 A
Output Current, Heavy-Duty Use (UL):	34 A
Output Power, Light-Overload Use (UL):	30 Hp
Output Power, Heavy-Duty Use (UL):	25 Hp

Certificates and Declarations

Declaration of Conformity - CE:	3AXD10000497831
REACH Date:	20260316
REACH Declaration:	9AKK107992A7060
REACH Information:	True - contains substances > 0.1 mass percentage
RoHS Date:	20240508
RoHS Declaration:	3AXD10000497831
RoHS Information:	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019

Environmental

Recyclability Rate of the Product acc. to EN45555:	77.6 %
Product Subcomponent Material Weights:	Aluminum 1.86 kg Copper 1.34 kg Steel 10.27 kg
SCIP:	ed7d2fda-200e-44d3-b64e-265fd32c1bd7 Finland
WEEE Category:	4. Large Equipment (Any 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

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

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