ABB □□□ Series Service Manual

ACS880-01-156A-5

1. Description

ABB LV AC industrial wall-mounted single drive, IEC: Pn 90 kW, 156 A, 500 V, UL: Pld 125 Hp, 156 A, 460 V (ACS880-01-156A-5)

3. Product Information

ABB LV AC industrial wall-mounted single drive, IEC: Pn 90 kW, 156 A, 500 V, UL: PId 125 Hp, 156 A, 460 V (ACS880-01-156A-5)

eneral Information

Global Commercial Alias:

ACS880-01-156A-5

Product ID:

3AUA0000090443

ABB Type Designation:

ACS880-01-156A-5

EAN:

6438177554745

Catalog Description:

LV AC industrial wall-mounted single drive, IEC: Pn 90 kW, 156 A, 500 V, UL: PId 125 Hp, 156 A, 460 V (ACS880-01-156A-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.

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:

ACS880-01-156A-5 PN: 90 kW, IN: 156 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:

53.0 kg

116.845 lb

Product Net Depth / Length:

365 mm

14.370 in

Product Net Height:

880 mm

34.646 in

Product Net Width:

284 mm

11.181 in

Package Level 1 Depth / Length:

992 mm

39.06 in

Package Level 1 Height:

598 mm

23.54 in

Package Level 1 Width:

400 mm

15.75 in

Package Level 1 Units:

1 case

Technical

Number of Phases:

3-phase

Degree of Protection:

IP21

Enclosure Type NEMA:

Type1

Altitude:

4000 m

Operating Humidity (RHamb):

5 ... 95

Sound dB (A):

67 dB(A)

Multiple Battery Information:

Lithium Coin, CR2032, 220 mAh, 3 V, 2 pcs, 6 g

Frequency (f):

47.5 ... 63 Hz

Frame Size:

R7

Input Voltage (Uin):

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 (In):

156 A

Output Current, Light-Overload Use (ILD):

148 A

Output Current, Heavy-Duty Use (IHD):

124 A

Output Power, Normal Use (Pn):

90 kW

Output Power, Light-Overload Use (PLD):

90 kW

Output Power, Heavy-Duty Use (PHD):

75 kW

Power Consumption (@Pcons):

1840 W

Apparent Power Output:

135 kV·A

Efficiency Level:

IE2

Standby Loss:

54 W

emperature Rating:

Maximum 40 °C

Technical UL

Output Current, Heavy-Duty Use (UL):

124 A

Output Current, Light-Overload Use (UL):

156 A

Output Current, Normal Use (UL):

- A

Output Power, Heavy-Duty Use (UL):

100 Hp

Output Power, Light-Overload Use (UL):

125 Hp