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LOW VOLTAGE AC

# ACS580-04-880A-4

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LV AC general purpose drive module, IEC: Pn 500 kW, 880 A, 400 V, UL: Pld 700 Hp, 807 A, 480 V (ACS580-04-880A-4)

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Product ID: 3A11A0000170525



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## General Information

**Global Commercial Alias:**

ACS580-04-880A-4

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**Product ID:**

3AUA0000170525

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**ABB Type Designation:**

ACS580-04-880A-4

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**EAN:**

6438177340478

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**Catalog Description:**

LV AC general purpose drive module, IEC: Pn 500 kW, 880 A, 400 V, UL: Pld 700 Hp, 807 A, 480 V (ACS580-04-880A-4)

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**Long Description:**

The ACS580-04 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 ACS580-04 drive module comes in IP00 enclosure as standard for cabinet installation. Also, IP20 enclosure is available.

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## Ordering

**Country of Origin:**

Finland (FI)

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**Customs Tariff Number:**

85044086

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**HS Code:**

850440-- Electrical transformers, static converters (for example, rectifiers) and inductors.- Static converters

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**Invoice Description:**

ACS580-04-880A-4 PN: 500 kW, IN: 880 A

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**Made To Order:**

Yes

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**Minimum Order Quantity:**

1 piece

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**Order Multiple:**

1 piece

---

**Quote Only:**

No

---

**Selling Unit of Measure:**

piece

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**Dimensions**

**Product Net Weight:**

199 kg

438.720 lb

---

**Product Net Depth / Length:**

529 mm

20.827 in

---

**Product Net Height:**

1662 mm

65.433 in

---

**Product Net Width:**

350 mm

13.780 in

---

**Package Level 1 Depth / Length:**

2060.00 mm

81.102 in

---

**Package Level 1 Height:**

500.00 mm

19.685 in

---

**Package Level 1 Width:**

670.00 mm

26.378 in

---

**Package Level 1 Units:**

1 carton

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## Technical

Number of Phases:

3

---

Degree of Protection:

IP00

---

Enclosure Type NEMA:

Open Type

---

Altitude:

1000 m

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Operating Humidity ( $RH_{amb}$ ):

95

---

Sound dB (A):

71 dB(A)

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Multiple Battery Information:

Lithium Coin, CR2032, 220 mAh, 3 V, 1 pc, 3 g

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Frequency ( $f$ ):

47.5 ... 63 Hz

---

Frame Size:

R11

---

Input Voltage ( $U_{in}$ ):

380 ... 480 V

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Mounting Type:

Module for cabinet building

---

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

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**Analog Inputs:**

2

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**Analog Outputs:**

2

---

**Number of Digital In/Outputs:**

6 / 3

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**Output Current, Normal Use ( $I_n$ ):**

880 A

---

**Output Current, Light-Overload Use ( $I_{LD}$ ):**

865 A

---

**Output Current, Heavy-Duty Use ( $I_{HD}$ ):**

725 A

---

**Output Power, Normal Use ( $P_n$ ):**

500 kW

---

**Output Power, Light-Overload Use ( $P_{LD}$ ):**

500 kW

---

**Output Power, Heavy-Duty Use ( $P_{HD}$ ):**

400 kW

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**Apparent Power Output:**

610 kV·A

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**Efficiency Level:**

IE2

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**Standby Loss:**

615 W

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## Complete Drive Module Efficiency (61800-9-2):

<b>Operating Point Frequency / Current</b>	<b>Absolute Loss</b>	<b>Efficiency</b>	<b>Relative Loss</b>
0/25 %	2916 W	93.0 %	0.4 %
0/50 %	4164 W	94.8 %	0.6 %
0/100 %	7551 W	95.3 %	1.0 %
50/25 %	3134 W	96.3 %	0.4 %
50/50 %	4641 W	97.2 %	0.6 %
50/100 %	8766 W	97.3 %	1.2 %
90/50 %	5366 W	98.2 %	0.7 %
90/100 %	10887 W	98.1 %	1.5 %

### Temperature Rating:

Maximum 40 °C

Minimum -15 °C

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## Technical UL

### Output Current, Heavy-Duty Use (UL):

625 A

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### Output Current, Light-Overload Use (UL):

807 A

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### Output Current, Normal Use (UL):

880 A

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### Output Power, Heavy-Duty Use (UL):

500 Hp

---

### Output Power, Light-Overload Use (UL):

700 Hp

---

## Classifications

ETIM 8:

EC001857 - Frequency converter =< 1 kV

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ETIM 9:

EC001857 - Frequency converter =< 1 kV

---

UNSPSC:

39122001

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## Environmental

SCIP:

e9fd22a6-81c4-4079-87c1-83e8cf566d7a Finland (FI)

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WEEE Category:

4. Large Equipment (Any External Dimension More Than 50 cm)

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## Additional Information

Product Name:

Frequency converter

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## Downloads for ACS580-04 - Drive module

Available documents:

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Brochure (13)

Catalogue (1)

Certificate (11)

Course description (1)

Declaration of conformity (15)

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### TÜV certificate for FSPS-21

Summary: FSPS-21 certified as plug-in module for ACS880, ACS580 and ACS380 with integrated safety functions S.....

Certificate - English - 2024-12-04 - 0,90 MB

[PDF](#)

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### ACS580-04 List of hyperlinks to all manuals

HTML Summary: No summary available

Manual - English - 2024-10-31 - 0,05 MB

[HTML](#)



### REACH SVHC-241 declaration

Summary: REACH SVHC-241 Declaration from Drive Products and System Drives

Declaration of conformity - English - 2024-10-21 - 0,25 MB

[PDF](#)

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