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 PRODUCT-DETAILS

## ACS580-04-585A-4

LV AC general purpose drive module, IEC: Pn 315 kW, 585 A, 400 V, UL: Pld 450 Hp, 573 A, 480 V (ACS580-04-585A-4)




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**General Information**

|                         |                  |
|-------------------------|------------------|
| Global Commercial Alias | ACS580-04-585A-4 |
| Product ID              | 3AUA0000170521   |
| ABB Type Designation    | ACS580-04-585A-4 |
| EAN                     | 6438177340430    |

|                     |   |
|---------------------|---|
| Catalog Description | LV AC general purpose drive module, IEC: Pn 315 kW, 585 A, 400 V, UL: Pld 450 Hp, 573 A, 480 V (ACS580-04-585A-4) |
|---------------------|---|

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.

## Long Description

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**

|                         |  |
|-------------------------|--|
| 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 |
| Short Description       | ACS580-04-585A-4   |
| Made To Order           | Yes  |
| Minimum Order Quantity  | 1 piece  |
| Order Multiple          | 1 piece  |
| Quote Only              | No   |
| Selling Unit of Measure | piece  |

## Dimensions

|                                |                      |
|--------------------------------|----------------------|
| Gross Weight                   | 204 kg<br>449.743 lb |
| Product Net Weight             | 161 kg<br>354.945 lb |
| Package Level 1 Units          | 1 case               |
| Package Level 1 Height         | 500 mm<br>19.69 in   |
| Package Level 1 Width          | 650 mm<br>25.59 in   |
| Package Level 1 Depth / Length | 2050 mm<br>80.71 in  |
| Product Net Height             | 1462 mm<br>57.559 in |
| Product Net Width              | 350 mm<br>13.780 in  |
| Product Net Depth / Length     | 529 mm<br>20.827 in  |

## Technical

|                                  |                |
|----------------------------------|----------------|
| Degree of Protection             | IP00           |
| Enclosure Type NEMA              | Open Type      |
| Frequency (f)                    | 47.5 ... 63 Hz |
| Maximum Output Frequency         | 598 Hz         |
| Input Voltage (U <sub>in</sub> ) | 380 ... 480 V  |
| Mounting Type                    | Module         |
| Number of Phases                 | 3-phase        |
| Number of Output Phases          | 3              |

## Technical IEC

|   |        |
|---|--------|
| Output Current, Normal Use (I <sub>n</sub> )          | 585 A  |
| Output Power, Normal Use (P <sub>n</sub> )            | 315 kW |
| Output Current, Light-Overload Use (I <sub>LD</sub> ) | 575 A  |
| Output Power, Light-                                  | 315 kW |

Overload Use ( $P_{LD}$ )

Output Current, Heavy-Duty Use (UL) 429 A

Duty Use ( $I_{HD}$ )

Output Power, Heavy-Duty Use (UL) 250 kW

Duty Use ( $P_{HD}$ )

Apparent Power Output 405 kV·A

Efficiency Level IE2

Standby Loss 423 W

Complete Drive Module Efficiency (IEC61800-9-2)

| Operating Point Frequency / Current | Absolute Loss | Efficiency | Relative Loss |
|-------------------------------------|---------------|------------|---------------|
| 0/25 %                              | 1889 W        | 93.2 %     | 0.4 %         |
| 0/50 %                              | 2690 W        | 95.0 %     | 0.6 %         |
| 0/100 %                             | 4866 W        | 95.4 %     | 1.0 %         |
| 50/25 %                             | 2030 W        | 96.4 %     | 0.4 %         |
| 50/50 %                             | 2990 W        | 97.3 %     | 0.6 %         |
| 50/100 %                            | 5617 W        | 97.4 %     | 1.2 %         |
| 90/50 %                             | 3427 W        | 98.2 %     | 0.7 %         |
| 90/100 %                            | 6840 W        | 98.2 %     | 1.4 %         |

Temperature Rating Maximum 40 °C  
Minimum -15 °C

**Technical UL**

Output Current, Light-Overload Use (UL) 573 A

Output Power, Light-Overload Use (UL) 450 Hp

Output Current, Heavy-Duty Use (UL) 414 A

Output Power, Heavy-Duty Use (UL) 350 Hp

**External Classifications and Standards**

ETIM 9 EC001857 - Frequency converter =< 1 kW

UNSPSC 39122001

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

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## Categories

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Drives → Low Voltage AC Drives → General Purpose Drives → ACS580-04 - Drive module

