PRODUCT-DETAILS

# ACS880-04-880A-3

## LV AC industrial single drive module, IEC: Pn 355 kW, 650 A (ACS880-04-880A-3)



### General Information

| | |
|---|---|
| **Global Commercial Alias:** | ACS880-04-880A-3 |
| **Product ID:** | 3ABD00039383-D |
| **ABB Type Designation:** | ACS880-04-880A-3 |
| **Catalog Description:** | LV AC industrial single drive module, IEC: Pn 355 kW, 650 A (ACS880-04-880A-3) |
| **Long Description:** | The ACS880-04 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 ACS880-04 modules have all the essential features built-in, including a choke for harmonic filtering as standard, and options such as a brake chopper, EMC filter and communication protocol adapter, functional safety and I/O extension modules. The all built-in design combined with IP20 protection significantly simplifies engineering. The drive's compact size, flexible cabling directions and versatile mounting possibilities from narrow bookshelf to flat mounting and horizontal mounting make it an ideal fit for almost any enclosure. The control unit with I/O and communication connections can be mounted outside the power module or integrated into it. |
| **Display Name:** | ACS880-04-880A-3 |

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## Ordering

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|---|---|
| **Customs Tariff Number:** | 8504409999 |
| **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:** | ACS880-04-880A-3 PN:500KW, IN:880A |
| **Made To Order:** | No |
| **Minimum Order Quantity:** | 1 piece |
| **Order Multiple:** | 1 piece |
| **Quote Only:** | No |
| **Selling Unit of Measure:** | piece |

## Dimensions

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|---|---|
| **Product Net Weight:** | 199 kg |
| **Product Net Depth / Length:** | 506 mm |
| **Product Net Height:** | 1741 mm |
| **Product Net Width:** | 350 mm |
| **Package Level 1 Depth / Length:** | 2050 mm |
| **Package Level 1 Height:** | 690 mm |
| **Package Level 1 Width:** | 645 mm |

## Technical

| Operating Point Frequency / Current | Absolute Loss | Relative Loss | Efficiency |
|---|---|---|---|
| 0 / 25 % | 2864 W | 0.5 % | 91.9 % |
| 0 / 50 % | 4088 W | 0.7 % | 94.0 % |
| 0 / 100 % | 7494 W | 1.2 % | 94.4 % |
| 50 / 25 % | 3088 W | 0.5 % | 95.6 % |
| 50 / 50 % | 4541 W | 0.7 % | 96.7 % |
| 50 / 100 % | 8761 W | 1.4 % | 96.8 % |
| 90 / 50 % | 5302 W | 0.9 % | 97.8 % |
| 90 / 100 % | 10986 W | 1.8 % | 97.8 % |

| | |
|---|---|
| **Number of Phases:** | 3-phase |
| **Degree of Protection:** | IP20 |
| **Enclosure Type NEMA:** | Open Type |
| **Frequency (f):** | 47.5 ... 63 Hz |
| **Input Voltage ($U_{in}$):** | 380 … 415 V |
| **Mounting Type:** | Module |

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|---|---|
| **Output Current, Normal Use ($I_n$):** | 650 A |
| **Output Current, Light-Overload Use ($I_{LD}$):** | 634 A |
| **Output Current, Heavy-Duty Use ($I_{HD}$):** | 477 A |
| **Output Power, Normal Use ($P_n$):** | 355 kW |
| **Output Power, Light-Overload Use ($P_{LD}$):** | 355 kW |
| **Output Power, Heavy-Duty Use ($P_{HD}$):** | 250 kW |
| **Apparent Power Output:** | 610 kV·A |
| **Efficiency Level:** | IE2 |
| **Standby Loss:** | 484 W |
| **Temperature Rating:** | Maximum 40 °C<br>Minimum -15 °C |

## Environmental

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|---|---|
| **WEEE Category:** | 4. Large Equipment (Any External Dimension More Than 50 cm) |

## External Classifications and Standards

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|---|---|
| **UNSPSC:** | 39122001 |

## Categories

Products > Drives > Low Voltage AC Drives > Industrial Drives > ACS880 Drive Modules > ACS880-04 - Single drive module



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