

PRODUCT-DETAILS

# ACS880-07-0800A-7+A004

ACS880-07-0800A-7+A004 PN: 800 kW, IN: 800 A



## General Information

|                         |  |
|-------------------------|--|
| Global Commercial Alias | ACS880-07-0800A-7+A004                       |
| Product ID              | 3AUA0000142718                               |
| ABB Type Designation    | ACS880-07-0800A-7+A004                       |
| Catalog Description     | ACS880-07-0800A-7+A004 PN: 800 kW, IN: 800 A |

## Ordering

|                         |  |
|-------------------------|--|
| Country of Origin       | Finland (FI)                                 |
| Customs Tariff Number   | 85044086                                     |
| Invoice Description     | ACS880-07-0800A-7+A004 PN: 800 kW, IN: 800 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 | 1690 kg<br>3726 lb |
|--------------------|--------------------|

|                                |                     |
|--------------------------------|---------------------|
| Product Net Depth / Length     | 698 mm<br>27.48 in  |
| Product Net Height             | 2145 mm<br>84.45 in |
| Product Net Width              | 2030 mm<br>79.92 in |
| Package Level 1 Depth / Length | 1100 mm<br>43.31 in |
| Package Level 1 Height         | 2376 mm<br>93.54 in |
| Package Level 1 Width          | 2294 mm<br>90.32 in |

Technical

|   |  |
|---|--|
| Number of Phases                                      | 3  |
| Degree of Protection                                  | IP22   |
| Enclosure Type NEMA                                   | Type1  |
| Altitude  | 1000 m<br>... 95   |
| Power Factor  | 0.98   |
| Sound dB (A)  | 73 dB(A)   |
| Frequency (f)   | 48 ... 63 Hz   |
| Frame Size  | 2xD7T+2xR8i  |
| Input Voltage (U <sub>in</sub> )                      | 525 ... 690 V  |
| Mounting Type   | Cabinet-built  |
| Communication Protocol                                | CAN<br>DeviceNet<br>EtherNet/IP<br>MODBUS<br>Other Bus Systems<br>PROFIsafe<br>PROFIBUS<br>PROFINET IO<br>TCP/IP |
| Number of Hardware Interfaces                         | Industrial Ethernet 0<br>Parallel 0<br>PROFINET 0<br>RS-232 0<br>RS-422 0<br>RS-485 1<br>Serial TTY 0<br>USB 1   |
| Includes  | Control unit<br>PC connection  |
| Analog Inputs   | 4  |
| Analog Outputs  | 4  |
| Number of Digital In/Outputs                          | 14 / 10  |
| Output Current, Heavy-Duty Use (I <sub>HD</sub> )     | 598 A  |
| Output Current, Light-Overload Use (I <sub>LD</sub> ) | 768 A  |
| Output Current, Normal Use (I <sub>n</sub> )          | 800 A  |
| Output Power, Heavy-Duty Use (P <sub>HD</sub> )       | 560 kW   |

|   |          |
|---|----------|
| Output Power, Light-Overload Use ( $P_{LD}$ ) | 710 kW   |
| Output Power, Normal Use ( $P_n$ )            | 800 kW   |
| Apparent Power Output                         | 956 kV-A |
| Efficiency Level                              | IE2      |
| Standby Loss                                  | 212 W    |
| Complete Drive Module Efficiency (61800-9-2)  |          |

| Operating Point<br>Frequency / Current | Absolute<br>Loss | Efficiency | Relative<br>Loss |
|--|------------------|------------|------------------|
| 0/25 %                                 | 5730 W           | 89.9 %     | 0.6 %            |
| 0/50 %                                 | 7879 W           | 92.7 %     | 0.8 %            |
| 0/100 %                                | 12803 W          | 94.0 %     | 1.3 %            |
| 50/25 %                                | 6103 W           | 94.6 %     | 0.6 %            |
| 50/50 %                                | 8484 W           | 96.1 %     | 0.9 %            |
| 50/100 %                               | 14359 W          | 96.7 %     | 1.5 %            |
| 90/50 %                                | 9521 W           | 97.5 %     | 1.0 %            |
| 90/100 %                               | 17035 W          | 97.8 %     | 1.8 %            |

|                     |  |
|---------------------|--|
| Temperature Rating  | Maximum 40 °C<br>Minimum 0 °C  |
| Ecodesign Exemption | Energy efficiency data according to IEC-61800-9-2 is available from the<br>ecodesign tool ( <a href="https://ecodesign.drivesmotors.abb.com">https://ecodesign.drivesmotors.abb.com</a> ). |

|                        |                     |
|------------------------|---------------------|
| Additional Information |                     |
| Product Main Type      | ACS880-07           |
| Product Name           | Frequency converter |

|                 |          |
|-----------------|----------|
| Classifications |          |
| UNSPSC          | 39122001 |

|               |   |
|---------------|---|
| Environmental |   |
| SCIP          | F97239A0-8F1B-4B36-A0F6-34D1783CB8EB Finland (FI)           |
| WEEE Category | 4. Large Equipment (Any External Dimension More Than 50 cm) |

|            |  |
|------------|--|
| Categories |  |
|------------|--|

Drives → Low Voltage AC Drives → Industrial Drives → ACS880 single drives → ACS880-07 - Cabinet-built single drive

