



PRODUCT-DETAILS

ACS880-07-0800A-7

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



| General Information | |
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| Global Commercial Alias | ACS880-07-0800A-7 |
| Product ID | 3AUA0000142719 |
| ABB Type Designation | ACS880-07-0800A-7 |
| Catalog Description | ACS880-07-0800A-7 PN: 800 kW, IN: 800 A |
| Long Description | <p>The cabinet-built single drives are built to order, meeting your needs regardless of the technical challenges. The drive configuration includes a rectifier, DC link, inverter, fuses, line choke and a main switch, all built into a compact cabinet for easy assembly and commissioning. The ACS880-07 offers a wide ariety of standardized configurations for different application requirements, from line contactors, to preventing unexpected motor starts. If the application requires more, ABB's Order-Based Engineering services can add special features to the standard product, such as an additional cabinet for customer-specific devices.</p> <p>Drives up to frame size R11 are based on a compact single module including rectifier and inverter. Larger drives consist of separate rectifier and inverter modules, providing redundancy with parallel connected units.</p> <p>If one module needs to be disconnected, the drive can continue running at reduced power.The robust design and enclosures up to IP54 make the ACS880-07 suitable for even very harsh environments.</p> |

| Ordering | |
|-----------------------|-----------------------------------------------------------------------------------------------------------------|
| Country of Origin | Finland (FI) |
| Customs Tariff Number | 85044086 |
| HS Code | 850440-- Electrical transformers, static converters (for example, rectifiers) and inductors.- Static converters |

| | |
|-------------------------|-----------------------------------------|
| Invoice Description | ACS880-07-0800A-7 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 | 1470 kg 3241 lb |
| Product Net Depth / Length | 698 mm 27.480 in |
| Product Net Height | 2145 mm 84.449 in |
| Product Net Width | 1830 mm 72.047 in |
| Package Level 1 Depth / Length | 1100 mm 43.307 in |
| Package Level 1 Height | 2376 mm 93.543 in |
| Package Level 1 Width | 2294 mm 90.315 in |

Technical

| | |
|----------------------------------|------------------------------------------------------------------------------------------------------------------|
| Number of Phases | 3 |
| Degree of Protection | IP22 |
| Enclosure Type NEMA | Type1 |
| Altitude | 1000 m 5 ... 95 |
| Power Factor | 0.98 |
| Sound dB (A) | 73 dB(A) |
| Multiple Battery Information | Lithium Coin, BR2032, 2pcs, 3V, 200mAh, 3g |
| Frequency (f) | 48 ... 63 Hz |
| Frame Size | 1xD8T+2xR8i |
| Input Voltage (U _{in}) | 525 ... 690 V |
| Mounting Type | Cabinet-built |
| Communication Protocol | CAN DeviceNet EtherNet/IP MODBUS Other Bus Systems PROFIsafe PROFIBUS PROFINET IO TCP/IP |
| Number of Hardware Interfaces | Industrial Ethernet 0 Parallel 0 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 | 4 |
| Analog Outputs | 4 |
| Number of Digital In/Outputs | 14 / 10 |
| Output Current, Heavy-Duty Use (I_{HD}) | 598 A |
| Output Current, Light-Overload Use (I_{LD}) | 768 A |
| Output Current, Normal Use (I_n) | 800 A |
| Output Power, Heavy-Duty Use (P_{HD}) | 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 | 163 W |
| Complete Drive Module Efficiency (61800-9-2) | |

| Operating Point Frequency / Current | Absolute Loss | Efficiency | Relative Loss |
|-------------------------------------|---------------|------------|---------------|
| 0/25 % | 5212 W | 90.7 % | 0.5 % |
| 0/50 % | 7207 W | 93.3 % | 0.8 % |
| 0/100 % | 12255 W | 94.2 % | 1.3 % |
| 50/25 % | 5645 W | 95.0 % | 0.6 % |
| 50/50 % | 7879 W | 96.4 % | 0.8 % |
| 50/100 % | 13978 W | 96.7 % | 1.5 % |
| 90/50 % | 8881 W | 97.7 % | 0.9 % |
| 90/100 % | 16481 W | 97.8 % | 1.7 % |

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

Classifications

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| UNSPSC | 39122001 |
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Environmental

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

Additional Information

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

Categories

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

