

PRODUCT-DETAILS

ACS880-07-0800A-7

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



General Information

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

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 variety 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.

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.

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.

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

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

UNSPSC	39122001
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Environmental

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

Additional Information

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

