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 PRODUCT-DETAILS

# ACS880-07-0820A-5

## ACS880-07-0820A-5 PN: 560 kW, IN: 820 A




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**General Information**


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<b>Global Commercial Alias:</b>	ACS880-07-0820A-5
<b>Product ID:</b>	3AUA0000138154
<b>ABB Type Designation:</b>	ACS880-07-0820A-5
<b>EAN:</b>	6438177388517
<b>Catalog Description:</b>	ACS880-07-0820A-5 PN: 560 kW, IN: 820 A
<b>Long Description:</b>	<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>
<b>Display Name:</b>	ACS880-07-0820A-5

## Ordering

<b>Customs Tariff Number:</b>	85044087
<b>HS Code:</b>	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
<b>Invoice Description:</b>	ACS880-07-0820A-5 PN: 560 kW, IN: 820 A
<b>Made To Order:</b>	Yes
<b>Minimum Order Quantity:</b>	1 piece
<b>Order Multiple:</b>	1 piece
<b>Quote Only:</b>	No
<b>Selling Unit of Measure:</b>	piece

## Dimensions

<b>Product Net Weight:</b>	580 kg 1279 lb
<b>Product Net Depth / Length:</b>	698 mm 27.480 in
<b>Product Net Height:</b>	2145 mm 84.449 in
<b>Product Net Width:</b>	830 mm 32.677 in
<b>Package Level 1 Depth / Length:</b>	1100 mm 43.307 in
<b>Package Level 1 Height:</b>	2385 mm 93.898 in
<b>Package Level 1 Width:</b>	1144 mm 45.039 in

## Technical

Operating Point Frequency / Current	Absolute Loss	Efficiency	Relative Loss
0/25 %	2906 W	92.9 %	0.4 %
0/50 %	4029 W	94.9 %	0.6 %
0/100 %	7002 W	95.5 %	1.0 %
50/25 %	3122 W	96.2 %	0.4 %
50/50 %	4449 W	97.2 %	0.6 %
50/100 %	8195 W	97.4 %	1.2 %
90/50 %	5171 W	98.2 %	0.7 %
90/100 %	10275 W	98.2 %	1.4 %

<b>Number of Phases:</b>	3-phase
<b>Degree of Protection:</b>	IP22

<b>Enclosure Type NEMA:</b>	Type1
<b>Altitude:</b>	1000 m
<b>Operating Humidity (RH<sub>amb</sub>):</b>	5 ... 95
<b>Power Factor:</b>	0.98
<b>Sound dB (A):</b>	71 dB(A)
<b>Multiple Battery Information:</b>	Lithium Coin, CR2032, 1pc, 3V, 220mAh, 3g
<b>Frequency (f):</b>	48 ... 63 Hz
<b>Frame Size:</b>	R11
<b>Input Voltage (U<sub>in</sub>):</b>	380 ... 500 V
<b>Mounting Type:</b>	Cabinet-built
<b>Communication Protocol:</b>	CAN DeviceNet EtherNet/IP MODBUS Other Bus Systems PROFIsafe PROFIBUS PROFINET IO TCP/IP
<b>Number of Hardware Interfaces:</b>	Industrial Ethernet 0 Parallel 0 PROFINET 0 RS-232 0 RS-422 0 RS-485 1 Serial TTY 0 USB 1
<b>Includes:</b>	Control unit PC connection
<b>Analog Inputs:</b>	2
<b>Analog Outputs:</b>	2
<b>Number of Digital In/Outputs:</b>	7 / 5
<b>Output Current, Normal Use (I<sub>n</sub>):</b>	820 A
<b>Output Current, Light-Overload Use (I<sub>LD</sub>):</b>	807 A
<b>Output Current, Heavy-Duty Use (I<sub>HD</sub>):</b>	625 A
<b>Output Power, Normal Use (P<sub>n</sub>):</b>	560 kW
<b>Output Power, Light-Overload Use (P<sub>LD</sub>):</b>	560 kW
<b>Output Power, Heavy-Duty Use (P<sub>HD</sub>):</b>	450 kW
<b>Apparent Power Output:</b>	710 kV·A
<b>Standby Loss:</b>	625 W
<b>Temperature Rating:</b>	Maximum 40 °C Minimum 0 °C
<b>Ecodesign Exemption:</b>	Energy efficiency data is not provided for this cabinet-built drive. Cabinet-built drives, with already conform modules, are excluded from the scope of the EU ecodesign requirements (Regulation EU/2019/1781, §2.3.e).

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## Technical UL

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**Output Current, Heavy-Duty Use (UL):** 625 A

**Output Current, Light-Overload Use (UL):** 807 A

**Output Power, Heavy-Duty Use (UL):** 500 Hp

**Output Power, Light-Overload Use (UL):** 700 Hp

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## Environmental

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**SCIP:** e1aec134-b168-4e21-9c40-ee5e90c4bab4 Finland

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

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## External Classifications and Standards

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**UNSPSC:** 39122001

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## Categories

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Products > Drives > Low Voltage AC Drives > Industrial Drives > ACS880 Single Drives > ACS880-07 - Cabinet-built single drive

