

PRODUCT-DETAILS

ACS880-07-0590A-7

ACS880-07-0590A-7 PN: 560 kW, IN: 590 A



General Information	
Global Commercial Alias	ACS880-07-0590A-7
Product ID	3AUA0000154958
ABB Type Designation	ACS880-07-0590A-7
Catalog Description	ACS880-07-0590A-7 PN: 560 kW, IN: 590 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	ACS880-07-0590A-7 PN: 560 kW, IN: 590 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	580 kg 1279 lb
Product Net Depth / Length	698 mm 27.480 in
Product Net Height	2145 mm 84.449 in
Product Net Width	830 mm 32.677 in
Package Level 1 Depth / Length	1100 mm 43.307 in
Package Level 1 Height	2385 mm 93.898 in
Package Level 1 Width	1144 mm 45.039 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)	71 dB(A)
Multiple Battery Information	Lithium Coin, CR2032, 2pcs, 3V, 220mAh, 6g
Frequency (f)	48 ... 63 Hz
Frame Size	R11
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	2
Analog Outputs	2
Number of Digital In/Outputs	7 / 5
Output Current, Heavy-Duty Use (I_{HD})	505 A
Output Current, Light-Overload Use (I_{LD})	571 A
Output Current, Normal Use (I_n)	590 A
Output Power, Heavy-Duty Use (P_{HD})	500 kW
Output Power, Light-Overload Use (P_{LD})	560 kW
Output Power, Normal Use (P_n)	560 kW
Apparent Power Output	705 kV·A
Standby Loss	438 W
Complete Drive Module Efficiency (61800-9-2)	

Operating Point Frequency / Current	Absolute Loss	Efficiency	Relative Loss
0/25 %	2998 W	92.6 %	0.4 %
0/50 %	4135 W	94.7 %	0.6 %
0/100 %	6643 W	95.7 %	0.9 %
50/25 %	3244 W	96.0 %	0.5 %
50/50 %	4594 W	97.1 %	0.7 %
50/100 %	7688 W	97.6 %	1.1 %
90/50 %	5198 W	98.2 %	0.7 %
90/100 %	9068 W	98.4 %	1.3 %

Temperature Rating	Maximum 40 °C Minimum 0 °C
Ecodesign Exemption	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).

Classifications

UNSPSC

39122001

Environmental

SCIP	e1aec134-b168-4e21-9c40-ee5e90c4bab4 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

