

QUANTUM CONTROLS PRESENTS

THE

ULTIMATE SOLUTION

FOR APPLICATIONS WHERE SPACE SAVINGS, SILENT OPERATION
OR DURABILITY IN HARSH ENVIRONMENTS IS A MUST



ONLY
ONE IN
STOCK!



ABB MULTI DRIVE FOR SALE

All-compatible drive | Various types of supply units including diode supply units and regenerative supply units Available as air and liquid-cooled versions Single supply and DC bus arrangement with several inverters reduce line power and system size. Utilize premium control of virtually any type of AC motor with direct torque control (DTC) | Induction and permanent magnet motors and synchronous machines | Solutions to many different applications (such as paper machines, winders, rolling mills, processing lines, cranes, drilling, and marine) are possible | Flexible connectivity and an extensive range of options

INCOMER SECTION

- ACS207-1050A-7
- 2x ACS880-0600-7 r8i modules
- IP22
- Internal DU/DT filter in R8i
- EMC second environment
- Line Contactor
- Disconnect switch
- Earth grounding switch
- Terminals for UPS
- Aluminium DC buss bars
- Cable supply conductor
- 230v ac control tx
- Electrical disconnect push button on door
- Multimeter for A,V,Kw,Kw hr
- Arc monitoring unit 1 loop including cable(fibres)
- Corrosion Classification coupon in ACU
- Aux transformer
- Bottom Entry/Exit
- ACS-AP-W control panel
- FENA 11 Ethernet IP modules

Section 1 - 160kw

- Acs880-107-0190a-7
- R6i 160kw
- DU/DT filter
- EMC 2nd Environment
- Terminals for UPS
- DC Switch Disconnect option
- 230 v aux tx
- ACS-AP-W control panel

Section 2 - 160kw

- Acs880-107-0190a-7
- R6i 160kw
- DU/DT filter
- EMC 2nd Environment
- Terminals for UPS
- DC Switch Disconnect option
- 230 v aux tx
- ACS-AP-W control panel
- FENA 11 MODULE
- FSO Safety module

Section 3 - 160kw 0130A-7

- Acs880-107-0190a-7
- R6i 160kw
- DU/DT filter
- EMC 2nd Environment
- Terminals for UPS
- DC Switch Disconnect option
- 230 v aux tx
- ACS-AP-W control panel
- FENA 11 MODULE
- FSO Safety module

Section 4 - 200kw

- Acs880-107-0220a-7 R7i
- 200kw
- DU/DT filter
- EMC 2nd Environment
- Terminals for UPS
- DC Switch Disconnect option
- 230 v aux tx
- ACS-AP-W control panel
- FENA 11 MODULE
- FSO Safety module

Section 5 - 7.5kw

- Acs880-107-009a8-7 R5i 7.5kw
- DU/DT filter
- EMC 2nd Environment
- Terminals for UPS
- DC Switch Disconnect option
- 230 v aux tx
- ACS-AP-W control panel
- FENA 11 MODULE
- FSO Safety module
- Acs880-107-0042a-7 R5i 37kw
- DU/DT filter
- EMC 2nd Environment
- Terminals for UPS
- DC Switch Disconnect option
- 230 v aux tx
- ACS-AP-W control panel
- FENA 11 MODULE
- FSO Safety module

Section 6 - 110kw

- Acs880-107-0130a-7 R6i 110kw
- DU/DT filter
- EMC 2nd Environment
- Terminals for UPS
- DC Switch Disconnect option
- 230 v aux tx
- ACS-AP-W control panel
- FENA 11 MODULE
- FSO Safety module

Section 7 - 37kw 0978-7 018A-7

- Acs880-107-0042a-7 R5i 37kw
- DU/DT filter
- EMC 2nd Environment
- Terminals for UPS
- DC Switch Disconnect option
- 230 v aux tx
- ACS-AP-W control panel
- FENA 11 MODULE
- FSO Safety module



Section 8 - ACS 8880-107-0800A-F

- DC Disconnection Switch
- IP22
- 2nd Env Filter
- Terminates Fen UPS
- FENA 11
- FSC 12
- FEN 31

Section 9 - 7.5kw

- Acs880-107-009a8-7 R5i 7.5kw
- DU/DT filter
- EMC 2nd Environment
- Terminals for UPS
- DC Switch Disconnect option
- 230 v aux tx
- ACS-AP-W control panel
- FENA 11 MODULE
- FSO Safety module

SAFETY PLC

- ABB ACS800M PLC Cubicle
- CI858K01 DriveBus Interface

Technical data

Mains connection

Voltage and power range	3-phase, UN3 380 to 415 V, +10%/-10% 3-phase, UN5 380 to 500 V, +10%/-10% 3-phase, UN7 525 to 690 V, +10%/-10% Inverter unit (INU) 1.5 to 6000 kW Diode supply unit (DSU) 50 to 5500 kVA IGBT supply unit (ISU) 300 to 6944 kVA Regenerative rectifier unit (RRU) 400 to 6100 kVA
Frequency	50/60 Hz ±5%
Power factor	IGBT supply unit (ISU): - cosφ = 1 (fundamental) - cosφ = 0.99 (total) Diode supply unit (DSU) and regenerative rectifier unit (RRU): - cosφ = 0.98 (fundamental) - cosφ = 0.93 to 0.95 (total)
Efficiency (at nominal power)	98% with DSU and RRU 97.5% with ISU

Motor connection

Voltage	3-phase output voltage 0 to U _{N3} / U _{N5} / U _{N7}
Frequency	0 to ±598 Hz ^{1) 3)}
Motor control	Direct torque control (DTC)
Torque control	Torque step rise time: Open loop - <5 ms with nominal torque Closed loop - <5 ms with nominal torque Non-linearity: Open loop - ± 4% with nominal torque Closed loop - ± 3% with nominal torque
Speed control	Static accuracy: Open loop - 10% of motor slip Closed loop - 0.01% of nominal speed Dynamic accuracy: Open loop - 0.3 to 0.4% seconds with 100% torque step Closed loop - 0.1 to 0.2% seconds with 100% torque step

Product compliance

CE
Low Voltage Directive 2014/35/EU according to EN 61800-5-1:2007
Machinery Directive 2006/42/EC
EMC Directive 2014/30/EU
ATEX Directive 2014/34/EU, EN 50495
Quality assurance system ISO 9001 and Environmental system ISO 14001
RoHS 2011/65/EU and Delegated Directive (EU) 2015/836
cULus listed according to UL 508A and CSA C22.2 No. 14,
CSA certified according to CSA C22.2 No. 14
RCM, EAC ²⁾
TÜV Nord certification for functional safety ⁵⁾
ATEX-certified safe disconnection function and thermistor & PT100 protection functions, Ex II (2) GD ⁶⁾
Marine type approvals, see <http://new.abb.com/drives/segments/marine/marine-type-approvals>

EMC according to EN 61800-3: 2004 + A1: 2012

1st environment, restricted distribution category C2, as option 1000 A and up to 500 V
2nd environment, unrestricted distribution category C3, as option

Environmental limits

Ambient temperature	Transport - 40 to +70°C Storage - 40 to +70°C Operation area (air-cooled) + 40 to 50°C with derating of 1% /1°C 0 (liquid-cooled) to +45°C, no frost allowed + 45 to +55°C with derating of 0.5%/1°C
Cooling method	Air-cooled Dry clean air Liquid-cooled Direct liquid-cooling, coolant Antifrogen® L Incoming coolant temperature to module (-x07LC): - 0 to +40°C as standard - +40 to +45°C with derating of 2%/1°C - +45 to +50°C with derating of 2%/1°C or 6%/1 °C 7) Incoming coolant temperature to optional liquid-cooling unit (-1007LC) (fresh water or sea water): - 0 to +36°C as standard - +36 to +46°C with derating of 2%/1°C

Altitude	0 to 1,000m Without derating 1,000 to 4,000m With derating of 1% / 100 m 4)
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Relative humidity	5 to 95%, no condensation allowed
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Degree of protection	Air-cooled IP22 as standard (IP20 cabinet doors open) IP42 or IP54 as option Liquid-cooled IP42 as standard (IP20 cabinet doors open) IP54 as option
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Paint colour	RAL 9017, RAL 7035
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Pollution degree	PD 2
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Contamination levels	No conductive dust allowed
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Storage	IEC 60721-3-1:1997, Class 1C2 (chemical gases), Class 1S2 (solid particles) *)
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Operation	IEC 60721-3-3:2002, Class 3C2 (chemical gases), Class 3S2 (solid particles) *)
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Transportation	IEC 60721-3-2:1997, Class 2C2 (chemical gases), Class 2S2 (solid particles) *)
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Vibration	IEC 60068-2-6, 10 to 57 Hz 0.075 mm displacement amplitude 57 to 150 Hz 1g Units with marine construction: - Max. 1 mm (peak value 2 to 13.2 Hz) - Max. 0.7 g (13.2 to 100 Hz) sinusoidal
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^{*)} C = Chemically active substances
^{*)} S = Mechanically active substances
¹⁾ Operation above 120 Hz might require type specific derating, please contact your local ABB office
²⁾ EAC has replaced GOST R
³⁾ For higher operational output frequencies please contact your local ABB office
⁴⁾ Derating reduced by lower than 40°C ambient temperature
⁵⁾ For available certificates, see <http://new.abb.com/drives/functional-safety>
⁶⁾ Thermistor protection function (+L537+Q971)
PTC/PT100 thermal motor protection (+L513/L514+Q971)
⁷⁾ See product specific hardware manual for detailed derating rules.

For more information, contact us:
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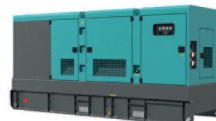
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