Canadian Pricebook

ABB Low Voltage Drives
Industrial Drives
ACS880

Power and productivity
for a better world™

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Whats new in this pricebook revision?

1. **ACS880-01 Frame R3 at 690V**
2. **ACS880-01 690V reduced list price**
3. **ACS880-04 reduced list price**
4. **ACS880-04XT New rating & reduced list price**
5. **ACS880-07+C100 replaced by +C134 and new options**
6. **New Common Options**

Publication: ACS880-CAD-01 Rev G
Effective: February 26th 2018

Supersedes:
ACS880-CAD-01 Rev F March 10th 2016

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Overview

The ACS880 is ABB's new all-compatible drives portfolio. The drives are compatible with virtually all types of AC motors, automation systems, users and business requirements.

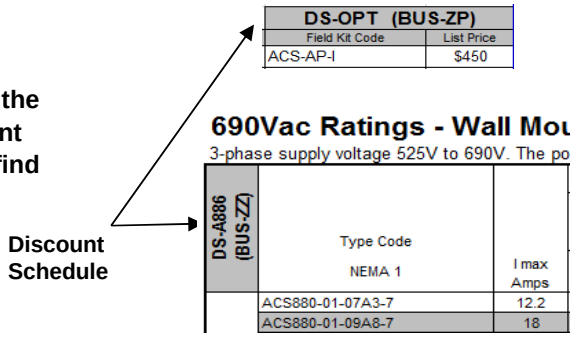
Simplifying your world without limiting your possibilities
The ACS880 is a drive compatible with a wide range of applications in a broad range of industries such as oil and gas, mining, metals, chemicals, cement, power plants, material handling, pulp and paper, sawmills and marine. At the heart of the drive is direct torque control (DTC), ABB's premier motor control technology. Built-in safety features reduce the need for external safety components. Multiple drives can be daisy-chained for synchronized drive to drive communication.

Learn it once, use it everywhere
The common drives architecture features the same control panel, parameter menu structure, universal accessories and engineering tools. The new control panel is equipped with an intuitive and high-resolution control display that enables easy navigation. Many flexible data visualizations including bar charts, histograms and trend graphs help users to analyze processes. The menus and messages are customizable for the specific terminology of different applications. An integrated USB port allows easy connection to the Drive composer PC tool, which offers fast and harmonized start-up, commissioning and monitoring. The built-in energy calculators, including used and saved kWh, CO2 reduction and money saved, help the user finetune processes to ensure optimal energy use. The energy optimizer control mode ensures the maximum torque per ampere, reducing energy drawn from the supply. Powerful, built in IEC61131-3 compliant PLC programming allows advanced and flexible drive programming to meet the most demanding and complex applications.

Guidelines for use of Price Pages

Discount Schedule

Each section of this pricebook has a discount schedule indicated in the corner of the tables or pages. This discount schedule, DS-xxx indicates the multiplier that is applicable for this table or page. The equivalent discount schedule for BUS system in indicated in parenthesis (BUS-Zx) You can find your multipliers in the document "Channel Partner Discount Schedule"



Application considerations

Because of the wide variety of applications for the ACS880 AC Drives, those responsible for the application and control of the drive must satisfy themselves that all necessary steps have been taken to ensure that they meet all safety and installation requirements regarding national and local laws, regulation, codes, and standards.

ACS800 products carry third party approval as follows;

Product	Approval or Listing
ACS880-01/04	UL / CUL/CE LV Directive/ CSA / TUV (functional safety conformity)

CE LV Directive and UL are mutually exclusive.
For complete list of approvals and applicable standards please refer to ACS880-01/04/07/17/37 hardware manual.

Selecting the correct drive rating

ACS880 AC Drives are current rated devices. The HP ratings are provided for your reference only and are based on typical 4-pole squirrel cage induction motors at nominal voltages meeting NEC table 42.1. When selecting the drive ensure the drive has a continuous current rating equal to or greater than the full load amp rating of the motor (if full motor torque is required). Motor power in kW ratings are provided where applicable and are based on IEC 4-pole motor ratings.

Warranty

Factory warranty covering parts and on-site labour for period of 24 months from manufacturing date of product.
As per LV drives warranty directive, ABB document # 3AXD00000572925 rev J.

The Date of manufacturing can be read from product serial number printed on product label ;
The serial number format is **MYYWW**, where;
M = Manufacturing location **YY** = Year of manufacturing (20YY) **WW** = Week of manufacturing (01..52)

Product warranty can be extended, please contact CA Drive services.

CA-drivesservices@abb.com

Order codes

BOL Order codes for ACS880 products can be found on document ACS880-BOL-CA-PRICING TOOL-Rev.C in MS Excel format.

Engineered products

ABB provides the option to our customers for ABB to design and build the ACS800 with non-standard options.

Send a detailed description of what is required to : *CA-drives.rfq@abb.com*

Third party approvals (UL, cUL, CE or CSA) may not be available with all engineered solutions.

General Terms and Conditions of Sale

TERMS AND CONDITIONS OF SALE

These terms and conditions of sale shall apply to all services, equipment, goods or products manufactured, distributed or sold by ABB Inc. ("Seller") unless otherwise agreed in writing by the Seller and the Purchaser.

1. ACCEPTANCE OF CONDITIONS

The Purchaser, upon receipt of the Seller's acknowledgement of an order, or upon receipt in whole or in part of the shipment sold under an order, or upon payment in whole or in part for the equipment, workmanship, goods, products, and the license of software, related materials supplied hereunder, ("Equipment") or rendition of services ("Services") or both shall be deemed an unconditional acceptance by Purchaser of these terms and conditions. Any deletions from, alterations or modifications or additions to the terms and conditions of this order, shall not be binding unless they are expressed in writing and signed by both the Seller and the Purchaser's authorized representatives.

2. DELIVERY

2.1 Equipment sold hereunder unless agreed otherwise shall be delivered Ex Works (... named place) as per Incoterms 2000, depending on specified means of transportation. Delivery dates specified in any quote are approximate, unless specified as binding. Delivery performance is dependent upon prompt receipt from the Purchaser of all specifications, final approved drawings and any other details essential to the proper execution of the Purchaser's order.

2.2 Upon notification of readiness of Equipment by Seller to Purchaser, Purchaser shall promptly take delivery of the Equipment. Purchaser's delay to take delivery of the Equipment shall result in Purchaser paying storage, maintenance and associated charges and Seller shall invoice Purchaser as if shipment or other performance had been made as originally scheduled. Such storage, handling maintenance shall be performed at Purchaser's cost and risk. Failure of Purchaser to take prompt delivery shall result in payment terms tied to such delivery becoming due immediately and payable. The Warranty Period hereinafter defined will begin upon such notification of readiness.

2.3 Unless otherwise agreed upon between the parties, Purchaser shall have the sole responsibility of choosing the carrier and routing from Seller's manufacturing facilities to the final destination.

3. FORCE MAJEURE

The Seller shall not be liable for delays in the execution of its obligations due to causes beyond its reasonable control including but not limited to acts of God, acts of the Purchaser, fires, strikes, labour disturbances, floods, epidemics, quarantine restrictions, war, insurrection or riot, acts of a civil or military authority, compliance with priority orders or preference ratings issued by any Government, acts of Government authorities with respect with to revocation of export or reexport permits/licenses, freight embargoes, car shortages, wrecks or delays in transportation, unusually severe weather, or inability to obtain necessary labour, materials or manufacturing facilities or supplies or delays of sub-contractors. In the event of any such delay, the date of shipment will be extended for a minimum of time equal to the period of the delay. The contract of sale will in no event be subject to cancellation by the Purchaser, due either to delay in delivery or to any other cause, without the prior written consent of the Seller. In the case of cancellation, cancellation charges judged adequate by Seller shall apply.

4. WARRANTIES

4.1 The Seller warrants that during the warranty period hereinafter defined the Equipment sold shall be free from defects in material and workmanship and shall be of the kind and quality designated or described in the specifications.

4.2 If within eighteen (18) months from the date of notification of readiness of shipment or twelve (12) months from date of first use by Purchaser or the end user, whichever date occurs first, the Equipment does not meet the warranties specified above, the Seller agrees to correct any defect, at its option, either by repairing any defective parts, or by making available Ex Works, repaired or replacement parts, provided the Purchaser notifies the Seller promptly of any such defects.

4.3 The cost of removal of the defective Equipment from its related system, site and/or ancillary equipment, and the cost of its reinstallation in such system, site and/or ancillary equipment, including all transportation costs to and from Seller's plant or repair shop, shall be borne exclusively by the Purchaser. The Purchaser shall not return or dispose of any Equipment or part thereof with respect to which it intends to make a claim under the foregoing warranty, without the Seller's express prior written authorization.

4.4 Seller warrants that it shall repair or replace, at its option and Ex Works, software products which fail in manner which significantly and adversely affects operating performance to conform to Seller's published software product description applicable to the specific software version as delivered to the Purchaser, provided Seller receives written notification of any such failure to conform within ninety (90) days from the readiness of shipment software. Seller does not warrant that the functions contained in the software will operate in combinations which may be selected for use by the Purchaser, or that the software products are free from errors.

4.5 Where Seller supplies Services, Seller warrants that it shall re-perform Services which are found to have been performed other than in a professional manner and in accordance with sound, generally accepted and professional practices in effect at the time of performance, provided Seller receives written notification of the defect within thirty (30) days from date of such performance.

4.6 Any repair, replacement or re-performance pursuant to the foregoing warranties pursuant hereto shall not renew or extend the warranties. The foregoing warranties shall be void to any deficiency or defect resulting from, the Equipment being improperly installed or cared for, operated under abnormal conditions or contrary to specifications or instructions of Seller, normal wear and tear, modifications or alterations made by Purchaser or a third party without Seller's consent.

4.7 THE EXPRESS WARRANTIES SET FORTH IN THIS ARTICLE ARE EXCLUSIVE AND NO OTHER WARRANTIES OF ANY KIND, WHETHER STATUTORY, ORAL, WRITTEN, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, SHALL APPLY. THE PURCHASER'S EXCLUSIVE REMEDIES AND THE SELLER'S ONLY OBLIGATIONS ARISING OUT OF OR IN CONNECTION WITH DEFECTIVE EQUIPMENT OR SERVICES OR BOTH, WHETHER BASED ON WARRANTY, CONTRACT, TORT (INCLUDING NEGLIGENCE) OR OTHERWISE, SHALL BE THOSE STATED HEREIN.

5. INSURANCE, CHARGES & PROPER CARE

So long as sums shall remain owing by Purchaser to Seller hereunder, Purchaser shall exercise proper care in the possession and use of the Equipment and shall keep same at all times in good repair and free of all liens, options, taxes, charges, pledges, privileges and encumbrances. Purchaser shall insure Equipment against loss, destruction or theft for the full value of the replacement purchase price of the Equipment.

6. TITLE & RISK

6.1 The title to and property in the Equipment sold hereunder and any substitutions or additions thereto and the right to possession thereof, whether attached to realty or otherwise, shall pass from the Seller to the Purchaser when the full purchase price of the Equipment has been paid. Upon failure to make any payment as herein provided, the whole purchase price and any note or security given on account therefore shall forthwith become due

General Terms and Conditions of Sale - *Continued*

and payable and the Seller may immediately enter the premises where the Equipment is located and take possession of and remove the same as its personal property, and may retain any or all partial payments already received as a rental charge for the use of the Equipment without affecting any further or other claims which Seller may have against the Purchaser.

6.2 Equipment sold hereunder shall be at the Purchaser's risk on delivery to it as specified in Article 2 above, and the loss or destruction of all or part of said Equipment shall not release Purchaser from any obligations of payment hereunder.

7. LIMITATION OF LIABILITY

7.1 Modifications or adjustments to Purchaser's processes or equipment which is made by Purchaser upon the good faith recommendations of Seller shall be made at Purchaser's risk. In no event shall Seller be liable for conditions of Purchaser's site.

7.2 The liability of the Seller, its agents, directors, officers, subcontractors, suppliers, for all claims, actions, judgements, expenses related to or resulting from any loss or damage arising out of performance or non-performance of obligations in connection with the design, manufacture, sale, delivery, storage, of the Equipment shall in no case exceed Seller's net unit price Ex Works of such Equipment or part thereof involved in a claim. Where Seller sells Services, the liability of the Seller, its agents, directors, officers, employees, subcontractors, suppliers for all claims, actions, judgment, expenses related to or resulting from any loss or damage arising out of performance or non-performance of Services, shall in no case exceed in the aggregate the amount paid by the Purchaser to Seller for the Services performed under the order.

7.3 No such claim shall be asserted against the Seller, its agents, directors, officers, employees, subcontractors, suppliers, unless the injury, loss or damage giving rise to the claim is sustained prior to the expiration of the period of warranty herein and no suit or action thereon shall be instituted or maintained unless it is filed in a court of competent jurisdiction within one year after the date the cause of action accrues.

7.4 In no event shall Seller be liable for loss of profit and for any indirect, special, incidental or consequential damages of any nature or kind including but not limited to delays, loss of revenue, loss of use, loss of data, loss of production, costs of capital or costs of replacement power, even if Seller has been advised of the possibility of such damages.

7.5 The limitations set forth in this Article 7 shall apply and be effective with respect to any claim, cause of action, or legal theory whatsoever including, but not limited to, contract or warranty (including performance guarantees) or breach thereof, indemnity, tort (including negligence), strict liability.

8. PRICES & PAYMENT TERMS

8.1 Prices are valid thirty (30) days from date of quotation by Seller. Price adjustment clauses, if applicable, will be stated at the time of quotation and a copy will be included as part of these Terms and Conditions, in an Appendix thereto.

8.2 All prices are Ex Works unless otherwise specified in writing by Seller. Prices quoted do not include federal, provincial, local or any other taxes, charges, levies and duties, and if same are applicable these shall be promptly paid by the Purchaser. Purchaser shall reimburse Seller any late payment penalty.

8.3 In cases where Seller's price includes taxes, charges, levies and duties, in the event of any changes in any taxes, charges, levies or duties, imposed under any federal, provincial municipal or local legislation or authority, after the date of submitting of Seller's tender or quotation and applicable to Equipment sold hereunder, the Seller's sale price shall be adjusted to reflect such increases or decreases. Any penalty or interest charge levied against the Seller due to the Purchaser's late payment shall be to Purchaser's account.

8.4 Price information published in catalogues, bulletins or price lists is not a definite quotation or offer to sell.

8.5 Seller reserves the right to adjust prices on any order for any alterations or changes authorized or made by the Purchaser subsequent to acceptance of the order.

8.6 All prices are in Canadian Dollars unless otherwise specified.

8.7 Payment shall be made direct to Seller's office in accordance with the conditions stated in the order. Unless otherwise specified, payment shall be due net thirty (30) days from the date of sending of the relevant invoice by the Seller, and time is of the essence in Purchaser's execution of any payment hereunder. Any late payment shall bear interest at the rate set by the Seller from time to time which is one and a half percent (1.5%) per month, eighteen percent per annum (18%), at the date of issue, calculated and due on a monthly basis.

8.8 Where Seller supplies Services, in the event of a request by Purchaser for additional specialist services, the services will be invoiced at the current per diem per person rate for those services. Associated travel and living costs will be added to those invoices. For extended hours (beyond 8 hours/daily), the rate for specialist services will change to an hourly rate person at one and a half (1.5) times the equivalent rate based on the per diem. Similarly, weekend and holiday requirements will be charged at two (2) times the hourly rate. All prices/rates quoted are valid for ninety (90) days from proposal date. Otherwise, prices are subject to change without notice. Travel and lodging will be billed at actual cost plus a ten percent (10%) administration charge.

9. PATENT INFRINGEMENT

The Seller will, at Seller's expense, defend any suit which may be brought against the Purchaser based on a claim that any Equipment or part furnished under contract constitutes an infringement of any letter patent (provided the Seller is notified promptly of such suit and copies of all papers therein are promptly delivered to Seller) and the Seller agrees to pay all judgments and costs recovered for any reasonable costs or expenses incurred in the defence of any such claim or suits. In case said Equipment or any part is held to constitute infringement and the use of the Equipment or part is enjoined, the Seller shall, at its own expense, either procure for the Purchaser the right to continue using the Equipment or part; or replace with non-infringing Equipment; or modify it so that it becomes non-infringing; or remove the Equipment and refund the purchase price and the transportation and installation costs thereof. The foregoing states the entire liability of the Seller for patent infringement by the Equipment or any part thereof. This provision shall not apply to any equipment or part which is manufactured by Seller or third parties, to Purchaser's design or specifications. The Seller assumes no liability for any such infringement and the Purchaser agrees to defend any suit against Seller for alleged infringement arising through the manufacture and sale of Equipment made to Purchaser's design or specifications and to indemnify and hold Seller harmless from any liability arising from any such infringement.

10. DAMAGES & LOSS CLAIMS

10.1 Seller shall carefully pack all Equipment sold hereunder and the Seller shall assume no responsibility for damage after having received "in good order" receipts from the carrier at Seller's works.

10.2 All claims for loss, damage and delay in transit are to be transacted by the consignee directly with the carrier. Claims for shortages or incorrect equipment must be made in writing to the Seller within fifteen (15) days after receipt of the shipment. Failure to give such notice shall constitute unqualified acceptance and a waiver by the Purchaser of all claims for shortages or incorrect equipment.

11. CHANGES

Seller reserves the right to make changes in design or to add any improvement on Equipment or other goods at any time, without incurring any obligations to install same on equipment or goods previously purchased or leased. Any changes caused or requested by Purchaser affecting the Equipment or otherwise affecting the scope of work must be accepted by Seller and resulting adjustment to price, schedule, or both, mutually agreed in writing.

12. TESTING & ACCEPTANCE OF GOODS

12.1 Testing of the Equipment before shipment is carried out in accordance with Seller's test procedures and at Seller's cost. Additional tests shall be agreed upon specifically between Seller and Purchaser and shall be charged to the Purchaser.

12.2 The Purchaser shall examine the Equipment upon taking possession of same and shall inform Seller immediately in

General Terms and Conditions of Sale - *Continued*

writing of all defects and deficiencies for which Seller is responsible. If Purchaser omits to so notify Seller within fifteen (15) days of Purchaser's possession of the Equipment, same shall be deemed to have been accepted.

12.3 Acceptance tests are carried out only if they have been agreed upon in writing by the Seller. As far as circumstances allow, such tests will be carried out in Seller's factory. If, for reasons beyond Seller's control, the acceptance tests cannot be carried out within the specified time, the qualities to be determined by these tests shall be deemed proved.

12.4 If it is found from one of the aforementioned tests that the Equipment does not fulfil the terms of the order, the Purchaser shall make available to Seller suitable opportunity to remedy any deficiency.

12.5 The Purchaser shall have no other rights than the rights outlined above, in case of delivery of deficient equipment.

13. TECHNICAL DOCUMENTS

13.1 Technical documents, such as drawings, descriptions, illustrations and the like, and all weight data, shall serve as an approximate indication only, provided they have not been expressly specified as binding. Seller reserves the right to make any alterations considered necessary.

13.2 All plans, drawings, technical specifications, documents, software, microfilm, data, or proprietary information relating to the Equipment sold, distributed or manufactured hereunder shall be treated in confidence by the Purchaser, who shall ensure the confidentiality thereof. They remain Seller's exclusive property and may be neither copied nor reproduced nor communicated to a third party in any way whatever nor used for manufacture of the Equipment, or parts thereof. They may be used only for operation and maintenance of the Equipment, under terms and conditions specified by the Seller.

13.3 All documents submitted with tenders that do not result in an order shall be returned to Seller on request.

14. SOFTWARE

14.1 Where Seller supplies a system program, Seller hereby grants to Purchaser a revocable non-transferable and non-exclusive license to use the computer software packages, related materials, and the intellectual property contained therein, furnished hereunder (collectively, the "Program") for the limited use described herein and in the other documents transmitted to Purchaser by Seller. This license shall remain in effect unless terminated by Seller due to Purchaser's breach of the provisions of the license.

14.2 The Program shall be used only in connection with Seller's Equipment. Purchaser shall have no right to use, print, display modify or disclose the Program nor duplicate or copy the Program, with the exception that one copy may be made for security purposes.

14.3 The Program is proprietary to Seller and this license allows the Purchaser only the limited right to use the Program, and nothing contained herein shall be deemed to convey any title to or ownership in the Program to the Purchaser.

15. DELAYS

Where Seller supplies Services, if there is a delay in the engineering or servicing due to any cause beyond the reasonable control of contractor, then the Purchaser shall pay the Seller all additional charges with respect to the delay, including but not limited to temporary relocation of contractor's personnel performing under this order.

16. RESPONSIBILITY OF PURCHASER

16.1 The operation of the Equipment is within the exclusive control of the Purchaser and the Purchaser shall indemnify and save the Seller harmless from any and all expense and liability (including attorney's fees) incurred by or imposed upon the Seller based upon injury to persons (including death) or damage to property (including the Equipment) resulting from the Purchaser's tests, cleaning, operation, or maintenance of the Equipment of from modifications to the Equipment by the Purchaser or by third parties.

16.2 The Seller's Service Representative(s) are not authorized to supervise operation nor are they authorized or licensed to operate the Equipment and therefore neither the Seller not its representative(s) shall be deemed to have any responsibility for the operation of the Equipment.

16.3 Purchaser agrees to provide Seller with safety practices at site where Services will be performed and identify any potential health hazards or other hazardous working conditions. Seller agrees to comply with identified safety practices and applicable laws and regulations at such site. Purchaser shall be responsible for any influencing deficiencies at Purchaser's site, including, but not limited to input signals of poor quality, different environmental conditions, improper application engineering, process problems or difficulties and delays.

17. CANCELLATION

17.1 Where Seller supplies Services, either party may cancel a portion or all of this agreement with written notice one hundred and twenty (120) days in advance only under the following conditions:

17.2 Where Seller supplies Services, during the notification period, Seller will continue to deliver the full scope of supply; and

17.3 Where Seller supplies Services, Purchaser will continue to pay the rate defined in the agreement during the one hundred and twenty (120) day period; and

17.4 Cancellation of this agreement by Purchaser for any reason will result in a twenty percent (20%) cancellation charge unless Seller and Purchaser have agreed to any other amount in an addendum to this Agreement.

18. EXPORT CONTROLS

18.1 Purchaser represents and warrants that the Equipment and Services provided hereunder and the "direct product" thereof are intended for civil use only and will not be used, directly or indirectly, for the production of chemical or biological weapons or of precursor chemicals for such weapons, or for any direct or indirect nuclear end use. Purchaser agrees not to disclose, use, export or re-export, directly or indirectly, any information provided by Seller or the "direct product" thereof as defined in the applicable Export Control Regulations, except in compliance with such Regulations.

18.2 If applicable, Seller shall file for an export license, but only after appropriate documentation for the license application has been provided by Purchaser. Purchaser shall furnish such documentation within a reasonable time after order acceptance. Any delay in obtaining such license shall suspend performance of this Agreement by Seller. If an export license is not granted or, if once granted, is thereafter revoked or modified by the appropriate authorities, this Agreement may be canceled by Seller without liability for damages of any kind resulting from such cancellation. At Seller's request, Purchaser shall provide to Seller a Letter of Assurance and End-User Statement in a form reasonably satisfactory to Seller.

19. GENERAL

19.1 Purchaser shall not assign this contract or any part thereof without the written consent of the Seller.

19.2 Any order received by the Seller is subject to credit approval and may be cancelled if the Purchaser's credit standing is not satisfactory to Seller.

19.3 This Agreement and any order or contract placed hereunder shall be interpreted according to the laws of the Canadian Province in which the Purchaser has placed the order under this Agreement, or failing such, the Province of Quebec; the Courts of the Canadian Province in which the Purchaser has placed the order under this Agreement shall have jurisdiction in any matter relating to same, but Seller shall also have access to the jurisdiction of the Courts of the residence of the Purchaser.

19.4 No terms of Purchaser's purchase order shall apply to this contract, even if subsequent to the terms and conditions hereof, unless agreed in writing by an authorized representative of the Seller.

19.5 No penalties or liquidated damages shall apply pursuant to the inexecution of Seller's obligations hereunder, unless accepted in writing by Seller's authorized representative.

General Terms and Conditions of Sale - *Continued*

19.6 These terms and conditions shall supersede and abrogate all previous communications, obligations, commitments or agreements, oral or written, expressed or implied, between the Purchaser and the Seller, in relation to this Agreement and all provisions under the United Nations Convention on Contracts for the International Sale of Goods.

19.7 Purchaser and Seller acknowledge having specifically requested that this Agreement and all related documents and correspondence be drafted in English.

19.8 Any addenda or appendices to this Agreement, to be applicable to any order hereunder, must be signed by both Purchaser's and Seller's respective authorized representatives.

19.9 The invalidity in whole or in part of any part of this Contract shall not affect the validity of the remainder of the Contract.

19.10 Either party's failure to enforce any provisions hereof shall not be construed a waiver of party's right thereafter to enforce each and every such provision.

General Terms and Conditions of Sale - *Continued*

Terms & Conditions for minimum order billing & freight allowed policy.

Terms & Conditions		Business Online orders	Non-Business Online orders
Minimum Billing		$250.00 CAD	$500.00 CAD
Handling fee if minimum billing not met		$50.00 CAD	
Pick-up hours	**Hours**	Business days, between **1PM** and **3 PM** est.	
	Notice	Book order prior to **10 AM** est.	Book order prior to **9 AM** est.
Freight Terms[2]	**ACS50, ACS150, ACS250, ACS3x0**	**DDP ground[1]**	**DDP ground[1]**
	ACS8x0-x1/x4/11/31 ACx5x0 (Frame R1-R6) Motion portfolio PLC/HMI	**DDP ground[1]**	**DDP ground[1]**
	ACS8x0-02/04 ACS550/ACH550 (Frame R7- R8) ACS880 (Frame R10 & R11)	**FCA Lachine, Quebec**	**FCA Lachine, Quebec**
	ACS8x0-x7	**FCA 1st International Airport/Port in Canada.**	**FCA 1st International Airport/Port in Canada.**
	DCS800 Frame D1-D5	**DDP ground[1]**	**DDP ground[1]**
	DCS800 Frame D6-D7 Cabinet DC Drives	Cannot be ordered on BOL	**FCA 1st International Airport/Port in Canada.**
	Options	**DDP ground[1]**	**DDP ground[1]**
Express order	**Express Shipping**	For garanteed same day shipping. Book order prior to 3 PM est.	For garanteed same day shipping. Book order prior to 1 PM est.
	Express fee	$50.00 CAD	$100.00 CAD

[1] DDP to 1st destination in Canada except for Yukon, North West Territories and Nunavut. Those destinations are EXW ABB Lachine,

[2] Drop shipment and air freight available (canadian destination only). The buyer bears all costs involved in taking the goods from the Delivery outside of Canada: EXW Lachine (Quebec) if stock at purchase order reception by ABB. EXW point of manufacture if not stock in Lachine.

Prepaid and Charge option not available.

Reference : Incoterms 2010

Important note: ABB will not be responsible for any damages for any prepaid shipments signed for as having been received without damages by the purchaser.

Product Specifications

Electrical power network specification

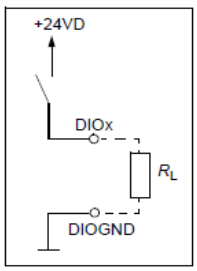
Voltage (U1)	ACS880-01-xxxx-2 units: 208 … 240 V AC 3-phase +10%…-15% ACS880-01/04-xxxx-3 units: 380 … 415 V AC 3-phase +10%…-15% ACS880-01/04-xxxx-5 units: 380 … 500 V AC 3-phase +10%…-15% ACS880-01/04-xxxx-7 units: 525 … 690 V AC 3-phase +10%…-15%
Network type	TN (grounded) and IT (ungrounded) systems.
Rated conditional short-circuit current (IEC 61439-1) **(UL 508C,CSA C22.2 No. 14-05)**	65 kA when protected by fuses given in the fuse tables Short-circuit current protection **US and Canada:** The drive is suitable for use on a circuit capable of delivering not more than 100 kA symmetrical amperes (rms) at 600 V maximum when protected by fuses given in the fuse table
Frequency	47 to 63 Hz, maximum rate of change 17%/s
Imbalance	Max. ± 3% of nominal phase to phase input voltage
Fundamental power factor(cos phi1)	0.98 (at nominal load)

Motor connection data

Motor types	Asynchronous AC induction motors, permanent magnet synchronous motors and AC induction servomotors
Voltage (U2)	0 to U1, 3-phase symmetrical, Umax at the field weakening point
Frequency	0…500 Hz
Switching frequency	2.7 kHz (typically)
Maximum recommended motor cable length	For ACS880-01-xxxx-2,ACS880-01-xxxx-3 and ACS880-01-xxxx-5 frames R1 to R3 and for types ACS880-01-07A3-7, ACS880-01-09A8-7, ACS880-01-14A2-7 and ACS880-01-018A-7: **150 m (492 ft)**
	For ACS880-01-xxxx-2, ACS880-01-xxxx-3 andACS880-01-xxxx-5 frames R4toR9 and for types from ACS880 022A-7 to ACS880-01-271A-7: **300 m (984 ft)**. **Note:** With motor cables longer than 150 m (492 ft) the EMC Directive requirements may not be fulfilled.
	For ACS880-04-Frame R10 and R11 all voltages: **300 m (984 ft)** Note: Motor cable longer than 100 m (328 ft) is allowed but then the EMC Directive requirements of Category C3 may not be fulfilled.

Product Specifications

Control unit/board (ZCU-12/ZCON-14) connection data

Power supply (XPOW)	24 V (±10%) DC, 2 A Supplied from the power unit of the drive, or from an external power supply through connector XPOW (pitch 5 mm, wire size 2.5 mm2).
Relay outputs RO1…RO3 (XRO1 … XRO3)	Connector pitch 5 mm, wire size 2.5 mm2 250 V AC / 30 V DC, 2 A Protected by varistors
+24 V output (XD24:2 and XD24:4)	Connector pitch 5 mm, wire size 2.5 mm2 Total load capacity of these outputs is 4.8 W (200 mA / 24 V) minus the power taken by DIO1 and DIO2.
Digital inputs DI1…DI6 (XDI:1 … XDI:6)	Connector pitch 5 mm, wire size 2.5 mm2 24 V logic levels: “0” < 5 V, “1” > 15 V Rin: 2.0 kohm Input type: NPN/PNP (DI1…DI5), NPN (DI6) Hardware filtering: 0.04 ms, digital filtering up to 8 ms DI6 (XDI:6) can alternatively be used as an input for 1…3 PTC thermistors. “0” > 4 kohm, “1” < 1.5 kohm Imax: 15 mA (for DI6 5 mA)
Start interlock input DIIL (XD24:1)	Connector pitch 5 mm, wire size 2.5 mm2 24 V logic levels: “0” < 5 V, “1” > 15 V Rin: 2.0 kohm Input type: NPN/PNP Hardware filtering: 0.04 ms, digital filtering up to 8 ms
Digital inputs/outputs DIO1 and DIO2 (XDIO:1 and XDIO:2)	Connector pitch 5 mm, wire size 2.5 mm2
Input/output mode selection by parameters. DIO1 can be configured as a frequency input (0…16 kHz with hardware filtering of 4 microseconds) for 24 V level square wave signal (sinusoidal or other wave form cannot be used). DIO2 can be configured as a 24 V level square wave frequency output. See the firmware manual, parameter group 11.	**As inputs:** 24 V logic levels: “0” < 5 V, “1” > 15 V Rin: 2.0 kohm Filtering: 0.25 ms **As outputs:** Total output current from +24VD is limited to 200 mA. 

Product Specifications

Control unit/board (ZCU-12/ZCON-14) connection data continued…

Reference voltage for analog inputs +VREF and - VREF (XAI:1 and XAI:2)	Connector pitch 5 mm, wire size 2.5 mm2 10 V ±1% and –10 V ±1%, Rload 1…10 kohm
Analog inputs AI1 and AI2 (XAI:4 … XAI:7). Current/voltage input mode selection by jumpers.	Connector pitch 5 mm, wire size 2.5 mm2 Current input: –20…20 mA, Rin: 100 ohm Voltage input: –10…10 V, Rin: > 200 kohm Differential inputs, common mode range ±30 V Sampling interval per channel: 0.25 ms Hardware filtering: 0.25 ms, adjustable digital filtering up to 8 ms Resolution: 11 bit + sign bit Inaccuracy: 1% of full scale range. Inaccuracy for Pt100 sensors: 10 °C (18 °F)
Analog outputs AO1 and AO2 (XAO)	Connector pitch 5 mm, wire size 2.5 mm2 0…20 mA, Rload < 500 ohm Frequency range: 0…300 Hz Resolution: 11 bit + sign bit Inaccuracy: 2% of full scale range
Drive-to-drive link (XD2D)	Connector pitch 5 mm, wire size 2.5 mm2 Physical layer: RS-485 Termination by jumper
Safe torque off connection (XSTO)	Connector pitch 5 mm, wire size 2.5 mm2 For the drive to start, both connections must be closed (OUT1 to IN1 and IN2)

Functional safety

For complete functional safety data for Safe Torque Off circuit, please refer to ACS880-01/04/07/17/37 hardware manuals

Ambient conditions

Environmental limits for the drive are given below. The drive is to be used in a heated, indoor, controlled environment.Please refer to hardware manual for more detailed information.

Air temperature	
Operation	-15 to +55 °C (5 to 131F). No Frost allowed
Storage and transportation	- 40 to +70 °C (-40to +158 °F)
Relative Humidity	No condensation allowed. Maximum allowed relative humidity is 60% in the presence of corrosive gases.
Atmospheric pressure	
Operation	70 to 106 kPa 0.7 to 1.05 atmospheres

Hardware Selection and Description

The ACS880 product family is designed to meet virtually any application and operating environement, with a complete selection of voltage, power and enclosure ratings combined with highly flexible control and communications. Listed below are brief descriptions of the package designs found in this document.

ACS880-01 Wall mounted

The ACS880-01 is a wall mounted drive available in nine(9) frame sizes (R1-R9). Available power range is from 1 to 100Hp @ 240Vac , 1 to 350Hp @480Vac, 0.75kW to 250kW @ 400Vac and from 7.5Hp to 250Hp@600Vac. Included in standard delivery is IP21 (UL Type 1) enclosure rating, ACS-AP-I assistant control panel, no EMC filter, DC choke, ACS880 primary control program, Safe torque off function, cable entry box, brake chopper in frames R1 to R4, coated boards, printed multilingual quick guides and CD containing all manuals. Available options are listed in priceing tables.

ACS880-04 Drive module

The ACS880-04 is a drive module to be installed in a cabinet,availablke in two (2) frame sizes (R10 and R11). Available power range is from 250kW to 500kW @400Vac, 400Hp to 700Hp@ 480V and from 300Hp to 700Hp@600Vac. Included in standard delivery is IP20 (UL open type), bookshelf mounting with pedestal, external control unit, control panel and panel holder, build-in choke, full-size output cable connection terminals, no EMC filter, no DC connection busbars, clear plastic shrouds for covering the input power and motor cable connections, ACS880 primary control program, Safe torque off function, coated boards, printed multilingual quick installation and start-up guides, CD containing all manuals with all available languages. Available options are listed in pricing tables.

ACS880-04XT Drive Module Packages

When no options are selected: two drive modules to be installed in a cabinet, IP00 (UL open type), bookshelf mounting with pedestal,external control unit, cables for connecting the control unit to the drive module,build-in input choke, no EMC filter, terminals for input, motor and DC connection, common mode filter (+E208), ACS880 primary control program, Safe torque off function, coated boards, memory stick containing all manuals with all available languages. Advanced Key Pad (ACSAPI) must be ordered seperatly.

ACS880-07 Drive Cabinet - Canadian version

The ACS880-07 is a Cabinet drive available from 100Hp-1500Hp@480Vac and 100Hp-2900Hp@600Vac. Standard delivery (CSA+C134) includes; cabinet-installed drive, IP22 (UL Type 1) or IP55(UL type 12) optional, main switch disconnector (switch fuse with UL/CSA fuses), ACS-AP-I assistant control panel, no EMC filter, AC or DC choke (depending on drive size), coated boards, ACS880 primary control program, Safe torque off function, bottom entry and exit of cables, circuit diagrams, USB memory stick containing all manuals. All components UL/CSA listed/ recognized. Higher Powers and other configurations are available upon request.

Hardware Selection and Description

The ACS880 product family is designed to meet virtually any application and operating environement. The following product variants are available for purchase in Canada. Please contact your local ABB representative for details. Requests for quotations must be sent to **CA-drives.rfq@abb.com**

ACS880-17 Regenerative Drives	
The ACS880-17 is a Cabinet drive available from 350Hp-2000Hp@480Vac and 350Hp to 3500Hp@600Vac.The ACS880-17 offers you a complete regenerative drive in a single,compact cabinet-built package. The drive includes everything that is needed for regenerative operation, including line filter. The active supply unit allows full power flow both in motoring and regenerating modes. Many engineered options are available.	

ACS880-37 Low Harmonic Drive	
The ACS880-37 is a Cabinet drive available from 350Hp-2000Hp@480Vac and 350Hp to 3500Hp@600Vac. ABB's low harmonic drives offer an easy low harmonic solution that is incorporated in the drive. These drives use harmonics mitigation technology that does not require external filters or multi-pulse transformer.The low harmonic drives produce exceptionally low harmonic content in the drive input, with a total current distortion of less than 5.0%. Many engineered options are available	

ACS880 Multi-Drive Cabinets	
The ACS880 multidrive principle is based on a standard DC bus arrangement enabling single power entry and common braking resources for several drives.Generally speaking, multidrives can be used wherever several drives form part of a single process.There are several possibilities on the supply side starting from a simple diode supply unit up to highly sophisticated active IGBT supply units. Many engineered options are available.	

ACS880 Multi-Drive Modules	
Cabinet design and assembly is simplified by the capability, simplicity and ease of use provided by ABB's all-compatible ACS880 drive modules. They consist of two types – single drive modules that control one motor and multidrive modules that is used to control several motors. They both have a configuration that contains a rectifier, DC link and an inverter. Multidrive modules are essential in multidrives where a standard DC bus arrangement is used, enabling single power entry and common braking resources for several drives.	

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230Vac Ratings - Wall Mounted Drives

3-phase supply voltage 208V to 240V. The power ratings are valid at nominal voltage **230Vac 60Hz**

DS-A882 (BUS-Z9)	Type Code NEMA 1	I max Amps	Nominal Ratings: Normal Duty (CT) (110% I_{2N}) I 2N Amps	PN Hp	Nominal Ratings: HeavyDuty (CT) (150% I_{2HD}) I 2HD Amps	PHD Hp	NEMA 1 List Price	Frame Size	Brake Chopper +D150	EMC/RFI Filter 2nd Envir +E200
	ACS880-01-04A6-2	6.3	4.4	1	3.7	0.75	$1,520	R1	STD	$100
	ACS880-01-06A6-2	7.8	6.3	1.5	4.6	1	$1,555	R1	STD	$100
	ACS880-01-07A5-2	11.2	7.1	2	6.6	1.5	$1,581	R1	STD	$100
	ACS880-01-10A6-2	12.8	10.1	3	7.5	2	$1,666	R1	STD	$100
	ACS880-01-16A8-2	18	16	5	10.6	3	$1,768	R2	STD	$125
	ACS880-01-24A3-2	28.6	23.1	7.5	16.8	5	$1,988	R2	STD	$125
	ACS880-01-031A-2	41	29.3	10	24.3	7.5	$2,252	R3	STD	$150
	ACS880-01-046A-2	64	44	15	38	10	$2,792	R4	STD	$200
	ACS880-01-061A-2	76	58	20	45	15	$3,583	R4	STD	$200
	ACS880-01-075A-2	104	71	25	61	20	$4,566	R5	$534	$280
	ACS880-01-087A-2	122	83	30	72	25	$5,521	R5	$534	$280
	ACS880-01-115A-2	148	109	40	87	30	$6,302	R6	$707	$280
	ACS880-01-145A-2	178	138	50	105	40	$8,101	R6	$707	$280
	ACS880-01-170A-2	247	162	60	145	50	$8,918	R7	$1,021	$471
	ACS880-01-206A-2	287	196	75	169	60	$9,828	R7	$1,021	$471
	ACS880-01-274A-2	362	260	100	213	75	$13,571	R8	$1,257	$629

I2N	Continuous rms output current allowing 10% overload for 1 minute every 5 minutes
PN	Typical motor power in normal duty use
I max	Maximum output current. Available for 10 seconds at start then as long as allowed by drive temperature
I2Hd	Continuous rms output current allowing 50% overload for 1 minute every 5 minutes.
PHd	Typical motor power in heavy-duty use

General Notes on ratings

Note 1: The ratings apply at an ambient temperature of 40 °C (104 °F).

Note 2: To achieve the rated motor power given in the table, the rated current of the drive must be higher than or equal to the rated motor current.

230Vac Ratings - Wall Mounted Drives

3-phase supply voltage 208V to 240V. The power ratings are valid at nominal voltage **230Vac 60Hz**

EMC/RFI 2nd Envir IT Network	EMC/RFI Filter 1st Envir	UL type 12 IP55	Vibration dampers	Marine Certification	Winder Control program	Crane Control Program	Centrifuge Control program	PCP/ESP Control program	Winch Control program
+E201	+E202	+B056	+C131	+C132	+N5000 Note(1)(2)	+N5050 Note(1)(2)	+N5150 Note(1)	+N5200 Note(1)	+N5100 Note(1)
N/A	$115	$350	$400	$600	CF	CF	$600	$200	$600
N/A	$115	$350	$400	$600	CF	CF	$600	$200	$600
N/A	$115	$350	$400	$600	CF	CF	$600	$200	$600
N/A	$115	$350	$400	$600	CF	CF	$600	$200	$600
N/A	$140	$400	$400	$600	CF	CF	$600	$200	$600
N/A	$140	$400	$400	$600	CF	CF	$600	$200	$600
N/A	$162	$400	$400	$600	CF	CF	$600	$200	$600
N/A	$190	$450	$400	$600	CF	CF	$600	$200	$600
N/A	$190	$450	$400	$600	CF	CF	$600	$200	$600
N/A	$273	$500	$400	$600	CF	CF	$600	$200	$600
N/A	$273	$500	$400	$600	CF	CF	$600	$200	$600
N/A	$356	$700	$400	$600	CF	CF	$600	$200	$600
N/A	$356	$700	$400	$600	CF	CF	$600	$200	$600
N/A	$598	$800	$400	$600	CF	CF	$600	$200	$600
N/A	N/A	$800	$400	$600	CF	CF	$600	$200	$600
N/A	N/A	$900	$400	$600	CF	CF	$600	$200	$600

Notes on factory installed options

(1) Application programs require approval of ABB Canada for purchase. Please contact your ABB representative.

(2) Please consult ABB for pricing of this option.

(3) Please see table below for important notes regarding this option

+C131	Vibration dampers for frames R4 to R9 in wall installations. Not needed in cabinet installations.
+C132	Marine type-approved drive. Includes common mode filter in frames R6 to R9. Requires option +C131 in wall installations for frames R4 to R9.

400Vac Ratings - Wall Mounted Drives

3-phase supply voltage 380V to 415V. The power ratings are valid at nominal voltage **400Vac 50Hz**

DS-A884 (BUS-Z7)	Type Code NEMA 1	I max Amps	Nominal Ratings: Normal Duty (CT) (110% I_{2N}) I_{2N} Amps	P_N kW	HeavyDuty (CT) (150% I_{2HD}) I_{2HD} Amps	P_{HD} kW	NEMA 1 List Price	Frame Size	Brake Chopper +D150	EMC/RFI Filter 2nd Envir +E200
Wall Mounted Drives	ACS880-01-02A4-3	3.1	2.3	0.75	1.8	0.55	$1,733	R1	STD	$100
	ACS880-01-03A3-3	4.1	3.1	1.1	2.4	0.75	$1,801	R1	STD	$100
	ACS880-01-04A0-3	5.6	3.8	1.5	3.3	1.1	$1,954	R1	STD	$100
	ACS880-01-05A6-3	6.8	5.3	2.2	4	1.5	$2,216	R1	STD	$100
	ACS880-01-07A2-3	9.5	7.6	3	5.6	2.2	$2,817	R1	STD	$100
	ACS880-01-09A4-3	12.2	9.5	4	7.2	3	$3,280	R1	STD	$100
	ACS880-01-12A6-3	16	12	5.5	9.4	4	$3,724	R1	STD	$100
	ACS880-01-017A-3	21	16	7.5	12.6	5.5	$4,199	R2	STD	$125
	ACS880-01-025A-3	29	24	11	17	7.5	$6,359	R2	STD	$125
	ACS880-01-032A-3	42	30	15	25	11	$7,120	R3	STD	$150
	ACS880-01-038A-3	54	36	18.5	32	15	$7,723	R3	STD	$150
	ACS880-01-045A-3	64	43	22	38	19	$10,357	R4	STD	$200
	ACS880-01-061A-3	76	58	30	45	22	$11,511	R4	STD	$200
	ACS880-01-072A-3	104	68	37	61	30	$14,264	R5	$534	$280
	ACS880-01-087A-3	122	83	45	72	37	$15,081	R5	$534	$280
	ACS880-01-105A-3	148	100	55	87	45	$17,489	R6	$707	$354
	ACS880-01-145A-3	178	138	75	105	55	$19,271	R6	$707	$354
	ACS880-01-169A-3	247	161	90	145	75	$21,561	R7	$1,021	$471
	ACS880-01-206A-3	287	196	110	169	90	$25,313	R7	$1,021	$471
	ACS880-01-246A-3	350	234	132	206	110	$28,341	R8	$1,257	$629
	ACS880-01-293A-3	418	278	160	246*	132	$29,856	R8	$1,257	$629
	ACS880-01-363A-3	498	345	200	293	160	$33,641	R9	$1,550	$864
	ACS880-01-430A-3	545	400	250	363**	200	$37,427	R9	$1,550	$864

I2N	Continuous rms output current allowing 10% overload for 1 minute every 5 minutes
PN	Typical motor power in normal duty use
I max	Maximum output current. Available for 10 seconds at start then as long as allowed by drive temperature
I2Hd	Continuous rms output current allowing 50% overload for 1 minute every 5 minutes. * Continuous rms output current allowing 30% overload for 1 minute every 5 minutes. ** Continuous rms output current allowing 25% overload for 1 minute every 5 minutes.
PHd	Typical motor power in heavy-duty use

General Notes on ratings

Note 1: The ratings apply at an ambient temperature of 40 °C (104 °F).

Note 2: To achieve the rated motor power given in the table, the rated current of the drive must be higher than or equal to the rated motor current.

400Vac Ratings - Wall Mounted Drives

3-phase supply voltage 380V to 415V. The power ratings are valid at nominal voltage **400Vac 50Hz**

EMC/RFI 2nd Envir IT Network	EMC/RFI Filter 1st Envir	UL type 12 IP55	Vibration dampers	Marine Certification	Winder Control program	Crane Control Program	Centrifuge Control program	PCP/ESP Control program	Winch Control program
+E201	+E202	+B056	+C131 Note(3)	+C132 Note(3)	+N5000 Note(1)(2)	+N5050 Note(1)(2)	+N5150 Note(1)	+N5200 Note(1)	+N5100 Note(1)
N/A	$115	$350	$400	$600	CF	CF	$600	$200	$600
N/A	$115	$350	$400	$600	CF	CF	$600	$200	$600
N/A	$115	$350	$400	$600	CF	CF	$600	$200	$600
N/A	$115	$350	$400	$600	CF	CF	$600	$200	$600
N/A	$115	$350	$400	$600	CF	CF	$600	$200	$600
N/A	$115	$350	$400	$600	CF	CF	$600	$200	$600
N/A	$115	$350	$400	$600	CF	CF	$600	$200	$600
N/A	$140	$400	$400	$600	CF	CF	$600	$200	$600
N/A	$140	$400	$400	$600	CF	CF	$600	$200	$600
N/A	$162	$400	$400	$600	CF	CF	$600	$200	$600
N/A	$162	$400	$400	$600	CF	CF	$600	$200	$600
N/A	$190	$450	$400	$600	CF	CF	$600	$200	$600
N/A	$190	$450	$400	$600	CF	CF	$600	$200	$600
N/A	$273	$500	$400	$600	CF	CF	$600	$200	$600
N/A	$273	$500	$400	$600	CF	CF	$600	$200	$600
$354	$356	$700	$400	$600	CF	CF	$600	$200	$600
$354	$356	$700	$400	$600	CF	CF	$600	$200	$600
$471	$598	$800	$400	$600	CF	CF	$600	$200	$600
$471	$598	$800	$400	$600	CF	CF	$600	$200	$600
$629	$815	$900	$400	$600	CF	CF	$600	$200	$600
$629	$815	$900	$400	$600	CF	CF	$600	$200	$600
$864	$1,189	$1,000	$400	$600	CF	CF	$600	$200	$600
$864	$1,189	$1,000	$400	$600	CF	CF	$600	$200	$600

Notes on factory installed options

(1) Application programs require approval of ABB Canada for purchase. Please contact your ABB representative.

(2) Please consult ABB for pricing of this option.

(3) Please see table below for important notes regarding this option

+C131	Vibration dampers for frames R4 to R9 in wall installations. Not needed in cabinet installations.
+C132	Marine type-approved drive. Includes common mode filter in frames R6 to R9. Requires option +C131 in wall installations for frames R4 to R9.

480Vac Ratings - Wall Mounted Drives

3-phase supply voltage 380V to 500V. The power ratings are valid at nominal voltage **480Vac 60Hz**

DS-A884 (BUS-Z7)	Type Code NEMA 1	I max Amps	Nominal Ratings: Normal Duty (CT) (110% I_{2N}) I_{2N} Amps	P_N Hp	Nominal Ratings: HeavyDuty (CT) (150% I_{2HD}) I_{2HD} Amps	P_{HD} Hp	NEMA 1 List Price	Frame Size	Brake Chopper +D150	EMC/RFI Filter 2nd Envir +E200
Wall Mounted Drives	ACS880-01-02A1-5	3.1	2.1	1	1.7	0.75	$1,080	R1	STD	$100
	ACS880-01-03A0-5	4.1	3	1.5	2.1	1	$1,200	R1	STD	$100
	ACS880-01-03A4-5	5.6	3.4	2	3	1.5	$1,440	R1	STD	$100
	ACS880-01-04A8-5	6.8	4.8	3	3.4	2	$1,571	R1	STD	$100
	ACS880-01-05A2-5	9.5	5.2	3	4.8	2	$1,630	R1	STD	$100
	ACS880-01-07A6-5	12.2	7.6	5	5.2	3	$1,700	R1	STD	$100
	ACS880-01-11A0-5	16	11	7.5	7.6	5	$1,756	R1	STD	$100
	ACS880-01-014A-5	21	14	10	11	7.5	$2,041	R2	STD	$125
	ACS880-01-021A-5	29	21	15	14	10	$2,397	R2	STD	$125
	ACS880-01-027A-5	42	27	20	21	15	$2,743	R3	STD	$150
	ACS880-01-034A-5	54	34	25	27	20	$3,166	R3	STD	$150
	ACS880-01-040A-5	64	40	30	34	25	$4,451	R4	STD	$200
	ACS880-01-052A-5	76	52	40	40	30	$5,170	R4	STD	$200
	ACS880-01-065A-5	104	65	50	52	40	$5,739	R5	$534	$280
	ACS880-01-077A-5	122	77	60	65	50	$7,694	R5	$534	$280
	ACS880-01-096A-5	148	96	75	77	60	$8,569	R6	$707	$354
	ACS880-01-124A-5	178	124	100	96	75	$10,064	R6	$707	$354
	ACS880-01-156A-5	247	156	125	124	100	$11,524	R7	$1,021	$471
	ACS880-01-180A-5	287	180	150	156	125	$12,736	R7	$1,021	$471
	ACS880-01-240A-5	350	240	200	180	150	$15,261	R8	$1,257	$629
	ACS880-01-260A-5	418	260	200	240*	150	$16,500	R8	$1,257	$629
	ACS880-01-302A-5	498	302	250	260	200	$17,733	R9	$1,550	$864
	ACS880-01-361A-5	542	361	300	302	250	$21,600	R9	$1,550	$864
	ACS880-01-414A-5	542	393***	350	361**	300	$24,000	R9	$1,550	$864

I2N	Continuous rms output current allowing 10% overload for 1 minute every 5 minutes
PN	Typical motor power in normal duty use
I max	Maximum output current. Available for 10 seconds at start then as long as allowed by drive temperature
I2Hd	Continuous rms output current allowing 50% overload for 1 minute every 5 minutes. * Continuous rms output current allowing 30% overload for 1 minute every 5 minutes. ** Continuous rms output current allowing 25% overload for 1 minute every 5 minutes. *** At ambient temperature of 30 °C (86 °F) the current is 414A **** Continuous rms output current allowing 35% overload for 1 minute every 5
PHd	Typical motor power in heavy-duty use

General Notes on ratings

Note 1: The ratings apply at an ambient temperature of 40 °C (104 °F).

Note 2: To achieve the rated motor power given in the table, the rated current of the drive must be higher than or equal to the rated motor current.

480Vac Ratings - Wall Mounted Drives

3-phase supply voltage 380V to 500V. The power ratings are valid at nominal voltage **480Vac 60Hz**

EMC/RFI 2nd Envir IT Network	EMC/RFI Filter 1st Envir	UL type 12 IP55	Vibration dampers	Marine Certification	Winder Control program	Crane Control Program	Centrifuge Control program	PCP/ESP Control program	Winch Control program
+E201	+E202	+B056	+C131 Note(3)	+C132 Note(3)	+N5000 Note(1)(2)	+N5050 Note(1)(2)	+N5150 Note(1)	+N5200 Note(1)	+N5100 Note(1)
N/A	$115	$350	$400	$600	CF	CF	$600	$200	$600
N/A	$115	$350	$400	$600	CF	CF	$600	$200	$600
N/A	$115	$350	$400	$600	CF	CF	$600	$200	$600
N/A	$115	$350	$400	$600	CF	CF	$600	$200	$600
N/A	$115	$350	$400	$600	CF	CF	$600	$200	$600
N/A	$115	$350	$400	$600	CF	CF	$600	$200	$600
N/A	$115	$350	$400	$600	CF	CF	$600	$200	$600
N/A	$140	$400	$400	$600	CF	CF	$600	$200	$600
N/A	$140	$400	$400	$600	CF	CF	$600	$200	$600
N/A	$162	$400	$400	$600	CF	CF	$600	$200	$600
N/A	$162	$400	$400	$600	CF	CF	$600	$200	$600
N/A	$190	$450	$400	$600	CF	CF	$600	$200	$600
N/A	$190	$450	$400	$600	CF	CF	$600	$200	$600
N/A	$273	$500	$400	$600	CF	CF	$600	$200	$600
N/A	$273	$500	$400	$600	CF	CF	$600	$200	$600
$354	$356	$700	$400	$600	CF	CF	$600	$200	$600
$354	$356	$700	$400	$600	CF	CF	$600	$200	$600
$471	$598	$800	$400	$600	CF	CF	$600	$200	$600
$471	$598	$800	$400	$600	CF	CF	$600	$200	$600
$629	$815	$900	$400	$600	CF	CF	$600	$200	$600
$629	$815	$900	$400	$600	CF	CF	$600	$200	$600
$864	$1,189	$1,000	$400	$600	CF	CF	$600	$200	$600
$864	$1,189	$1,000	$400	$600	CF	CF	$600	$200	$600
$864	$1,189	$1,000	$400	$600	CF	CF	$600	$200	$600

Notes on factory installed options

(1) Application programs require approval of ABB Canada for purchase. Please contact your ABB representative.

(2) Please consult ABB for pricing of this option.

(3) Please see table below for important notes regarding this option

+C131	Vibration dampers for frames R4 to R9 in wall installations. Not needed in cabinet installations.
+C132	Marine type-approved drive. Includes common mode filter in frames R6 to R9. Requires option +C131 in wall installations for frames R4 to R9.

690Vac Ratings - Wall Mounted Drives

3-phase supply voltage 525V to 690V. The power ratings are valid at nominal voltage **575Vac 60Hz**

DS-A886 (BUS-ZZ)	Type Code NEMA 1	I max Amps	Nominal Ratings: Normal Duty (CT) (110% I_{2N}) I_{2N} Amps	P_N Hp	HeavyDuty (CT) (150% I_{2HD}) I_{2HD} Amps	P_{HD} Hp	NEMA 1 List Price	Frame Size	Brake Chopper +D150	EMC/RFI Filter 2nd Envir +E200
Wall Mounted Drives	ACS880-01-07A4-7	12.2	7	5	5.6	3	$1,728	R3	STD	$280
	ACS880-01-09A9-7	18	9.4	7.5	7.4	5	$2,050	R3	STD	$280
	ACS880-01-14A3-7	22	13.6	10	9.9	7.5	$2,300	R3	STD	$280
	ACS880-01-019A-7	29	18	15	14.3	10	$2,953	R3	STD	$280
	ACS880-01-023A-7	38	22	20	19	15	$3,600	R3	STD	$280
	ACS880-01-027A-7	46	27	25	23	20	$4,696	R3	STD	$280
	ACS880-01-035A-7	64	41	40	32	30	$6,000	R5	$534	$280
	ACS880-01-042A-7	74	52	50	41	40	$7,600	R5	$534	$280
	ACS880-01-049A-7	76	52	50	41	40	$8,158	R5	$534	$280
	ACS880-01-061A-7	104	62	60	52	50	$9,080	R6	$707	$354
	ACS880-01-084A-7	124	77	75	62	60	$10,507	R6	$707	$354
	ACS880-01-098A-7	168	99	100	77	75	$12,009	R7	$1,021	$471
	ACS880-01-119A-7	198	125	125	99	100	$13,853	R7	$1,021	$471
	ACS880-01-142A-7	250	144	150	125	125	$15,099	R8	$1,257	$629
	ACS880-01-174A-7	274	180	200	144	150	$16,323	R8	$1,257	$629
	ACS880-01-210A-7	384	242	250	192	200	$18,101	R9	$1,550	$864
	ACS880-01-271A-7	411	271	250	242*	250	$19,842	R9	$1,550	$864

I2N	Continuous rms output current allowing 10% overload for 1 minute every 5 minutes
PN	Typical motor power in normal duty use
I max	Maximum output current. Available for 10 seconds at start then as long as allowed by drive temperature
I2Hd	Continuous rms output current allowing 50% overload for 1 minute every 5 minutes. * Continuous rms output current allowing 30% overload for 1 minute every 5 minutes.
PHd	Typical motor power in heavy-duty use

General Notes on ratings

Note 1: The ratings apply at an ambient temperature of 40 °C (104 °F).

Note 2: To achieve the rated motor power given in the table, the rated current of the drive must be higher than or equal to the rated motor current.

Note 3: The ACS880-01-271A-7 Power rating (PN) is as per NEC table 42.1. However, drive can be used for a typical 4 pole motor rated 300hp and meeting Nema MG1- table 12-11 minimum efficiency standard (EPAct efficiency electrical motors)if motor FLA is not more than 271A @575V for normal duty application.

Note 4: The ACS880-01-174A-7 drive can deliver 192A @ 575V with no overload.

690Vac Ratings - Wall Mounted Drives

3-phase supply voltage 525V to 690V. The power ratings are valid at nominal voltage **575Vac 60Hz**

EMC/RFI 2nd Envir IT Network	EMC/RFI Filter 1st Envir	UL type 12 IP55	Vibration dampers	Marine Certification	Winder Control program	Crane Control Program	Centrifuge Control program	PCP/ESP Control program	Winch Control program
+E201	+E202	+B056	+C131 Note(3)	+C132 Note(3)	+N5000 Note(1)(2)	+N5050 Note(1)(2)	+N5150 Note(1)	+N5200 Note(1)	+N5100 Note(1)
N/A	N/A	$500	$400	$600	CF	CF	$600	$200	$600
N/A	N/A	$500	$400	$600	CF	CF	$600	$200	$600
N/A	N/A	$500	$400	$600	CF	CF	$600	$200	$600
N/A	N/A	$500	$400	$600	CF	CF	$600	$200	$600
N/A	N/A	$500	$400	$600	CF	CF	$600	$200	$600
N/A	N/A	$500	$400	$600	CF	CF	$600	$200	$600
N/A	N/A	$500	$400	$600	CF	CF	$600	$200	$600
N/A	N/A	$500	$400	$600	CF	CF	$600	$200	$600
N/A	N/A	$500	$400	$600	CF	CF	$600	$200	$600
N/A	N/A	$700	$400	$600	CF	CF	$600	$200	$600
N/A	N/A	$700	$400	$600	CF	CF	$600	$200	$600
$471	N/A	$800	$400	$600	CF	CF	$600	$200	$600
$471	N/A	$800	$400	$600	CF	CF	$600	$200	$600
$629	N/A	$900	$400	$600	CF	CF	$600	$200	$600
$629	N/A	$900	$400	$600	CF	CF	$600	$200	$600
$864	N/A	$1,000	$400	$600	CF	CF	$600	$200	$600
$864	N/A	$1,000	$400	$600	CF	CF	$600	$200	$600

Notes on factory installed options

(1) Application programs require approval of ABB Canada for purchase. Please contact your ABB representative.

(2) Please consult ABB for pricing of this option.

(3) Please see table below for important notes regarding this option

+C131	Vibration dampers for frames R4 to R9 in wall installations. Not needed in cabinet installations.
+C132	Marine type-approved drive. Includes common mode filter in frames R6 to R9. Requires option +C131 in wall installations for frames R4 to R9.

400Vac Ratings - Drive Modules

3-phase supply voltage 380V to 415V. The power ratings are valid at nominal voltage **400Vac 50Hz**

DS-A884 (BUS-Z7)	Type Code	Max. current		Nominal Ratings						Brake Chop	EMC/RFI Filter 2nd Envir
				Normal Duty (CT) (110% I_{2N})		HeavyDuty (CT) (150% I_{2HD})					
	IP00 (UL open type)	I max	Imax_start	I_{2N}	P_N	I_{2HD}	P_{HD}	NEMA 1 List Price	Frame Size	+D150	+E200
		Amps	Amps	Amps	kW	Amps	kW				
Drive Modules	ACS880-04-505A-3	560	671	485	250	361	200	$40,000	R10	$3,500	$1,200
	ACS880-04-585A-3	730	828	575	315	429	250	$45,000	R10	$3,500	$1,200
	ACS880-04-650A-3	730	954	634	355	477	250	$50,000	R10	$3,500	$1,200
	ACS880-04-725A-3	1020	1100	715	400	566	315	$57,000	R11	$3,500	$1,200
	ACS880-04-820A-3	1020	1100	810	450	625	355	$62,000	R11	$3,500	$1,200
	ACS880-04-880A-3	1100	1100	865	500	725*	400	$68,000	R11	$3,500	$1,200

480Vac Ratings - Drive Modules

3-phase supply voltage 380V to 500V. The power ratings are valid at nominal voltage **480Vac 60Hz**

DS-A884 (BUS-Z7)	Type Code	Max. current		Nominal Ratings						Brake Chopper	EMC/RFI Filter 2nd Envir
				Normal Duty (CT) (110% I_{2N})		HeavyDuty (CT) (150% I_{2HD})					
	IP00 (UL open type)	I max	Imax_start	I_{2N}	P_N	I_{2HD}	P_{HD}	NEMA 1 List Price	Frame Size	+D150	+E200
		Amps	Amps	Amps	Hp	Amps	Hp				
Drive Modules	ACS880-04-503A-5	560	671	483	400	361	300	$35,250	R10	3500	$1,200
	ACS880-04-583A-5	730	828	573	450	414	350	$41,500	R10	3500	$1,200
	ACS880-04-635A-5	730	954	623	500	477	400	$45,900	R10	3500	$1,200
	ACS880-04-715A-5	850	1100	705	600	566	450	$47,350	R11	3500	$1,200
	ACS880-04-820A-5	1020	1100	807	700	625	500	$58,400	R11	3500	$1,200
	ACS880-04-880A-5	1100	1100	857	700	697**	600	$69,750	R11	3500	$1,200

690Vac Ratings - Drive Modules

3-phase supply voltage 525V to 690V. The power ratings are valid at nominal voltage **575Vac 60Hz**

DS-A886 (BUS-ZZ)	Type Code	Max. current		Nominal Ratings						Brake Chopper	EMC/RFI Filter 2nd Envir
				Normal Duty (CT) (110% I_{2N})		HeavyDuty (CT) (150% I_{2HD})					
	IP00 (UL open type)	I max	Imax_start	I_{2N}	P_N	I_{2HD}	P_{HD}	NEMA 1 List Price	Frame Size	+D150	+E200
		Amps	Amps	Amps	Hp	Amps	Hp				
Drive Modules	ACS880-04-330A-7	480	510	336	350	255	250	$22,786	R10	$3,500	$1,200
	ACS880-04-370A-7	520	650	382	400	325	300	$25,571	R10	$3,500	$1,200
	ACS880-04-430A-7	540	720	424	450	360*	350	$31,857	R10	$3,500	$1,200
	ACS880-04-470A-7	655	830	472	500	415	450	$39,000	R11	$3,500	$1,200
	ACS880-04-522A-7	685	910	528	550	455	450	$43,500	R11	$3,500	$1,200
	ACS880-04-590A-7	800	1010	571	600	505	500	$50,050	R11	$3,500	$1,200
	ACS880-04-650A-7	825	1100	630	700	571***	600	$61,200	R11	$3,500	$1,200
	ACS880-04-721A-7	825	1100	705	700	571***	600	$67,700	R11	$3,500	$1,200

I2N	Continuous rms output current allowing 10% overload for 1 minute every 5 minutes
PN	Typical motor power in normal duty use
I2Hd	Continuous rms output current allowing 50% overload for 1 minute every 5 minutes. * Continuous rms output current allowing 40% overload for 1 minute every 5 minutes **Continuous rms output current allowing 45% overload for 1 minute every 5 minutes ***Continuous rms output current allowing 44% overload for 1 minute every 5 minutes
PHd	Typical motor power in heavy-duty use
I max	Maximum output current. Available for 10 seconds at start, otherwise as long as allowed by drive temperature. 140% … 200% of IHd, depending on power rating.
Imax_ start	Maximum output current at start. Available for 2 seconds only at start every 5 seconds.

General Notes on ratings

Note 1: The ratings apply at an ambient temperature of 40 °C (104 °F).

Note 2: To achieve the rated motor power given in the table, the rated current of the drive must be higher than or equal to the rated motor current.

400Vac Ratings - Drive Modules

3-phase supply voltage 380V to 415V. The power ratings are valid at nominal voltage **400Vac 50Hz**

EMC/RFI Filter IT (unground) 2nd Envir	Coomin mode filter	Marine Certification	DC connection busbars	Flat mounting kit	Full size terminals AC power connections	Full power cabling panels	Integrated Control unit	Integrated KeyPad Holder	Winder Control program	Crane Control Program	Centrifuge Control program	PCP/ESP Control program
+E201	+E208	+C132 Note(4)	+H356	+C173 Note(3)	+H370 Note(3)	+H381 Note(3)	+P905	+J414 Note(2)	+N5000 Note(1)	+N5050 Note(1)	+N5150 Note(1)	+N5200 Note(1)
$1,200	$950	$900	$250	Note(3)	Note(3)	Note(3)	$350	$100	CF	CF	$600	$200
$1,200	$950	$900	$250	Note(3)	Note(3)	Note(3)	$350	$100	CF	CF	$600	$200
$1,200	$950	$900	$250	Note(3)	Note(3)	Note(3)	$350	$100	CF	CF	$600	$200
$1,200	$950	$900	$250	Note(3)	Note(3)	Note(3)	$350	$100	CF	CF	$600	$200
$1,200	$950	$900	$250	Note(3)	Note(3)	Note(3)	$350	$100	CF	CF	$600	$200
$1,200	$950	$900	$250	Note(3)	Note(3)	Note(3)	$350	$100	CF	CF	$600	$200

480Vac Ratings - Drive Modules

3-phase supply voltage 380V to 500V. The power ratings are valid at nominal voltage **480Vac 60Hz**

EMC/RFI Filter IT (unground) 2nd Envir	Coomin mode filter	Marine Certification	DC connection busbars	Flat mounting kit	Full size terminals AC power connections	Full power cabling panels	Integrated Control unit	Integrated KeyPad Holder	Winder Control program	Crane Control Program	Centrifuge Control program	PCP/ESP Control program
+E201	+E208	+C132 Note(4)	+H356	+C173 Note(3)	+H370 Note(3)	+H381 Note(3)	+P905	+J414 Note(2)	+N5000 Note(1)	+N5050 Note(1)	+N5150 Note(1)	+N5200 Note(1)
$1,200	$950	$900	$250	Note(3)	Note(3)	Note(3)	$350	$100	CF	CF	$600	$200
$1,200	$950	$900	$250	Note(3)	Note(3)	Note(3)	$350	$100	CF	CF	$600	$200
$1,200	$950	$900	$250	Note(3)	Note(3)	Note(3)	$350	$100	CF	CF	$600	$200
$1,200	$950	$900	$250	Note(3)	Note(3)	Note(3)	$350	$100	CF	CF	$600	$200
$1,200	$950	$900	$250	Note(3)	Note(3)	Note(3)	$350	$100	CF	CF	$600	$200
$1,200	$950	$900	$250	Note(3)	Note(3)	Note(3)	$350	$100	CF	CF	$600	$200

690Vac Ratings - Drive Modules

3-phase supply voltage 525V to 690V. The power ratings are valid at nominal voltage **575Vac 60Hz**

EMC/RFI Filter IT (unground) 2nd Envir	Coomin mode filter	Marine Certification	DC connection busbars	Flat mounting kit	Full size terminals AC power connections	Full power cabling panels	Integrated Control unit	Integrated KeyPad Holder	Winder Control program	Crane Control Program	Centrifuge Control program	PCP/ESP Control program
+E201	+E208	+C132 Note(4)	+H356	+C173 Note(3)	+H370 Note(3)	+H381 Note(3)	+P905	+J414 Note(2)	+N5000 Note(1)	+N5050 Note(1)	+N5150 Note(1)	+N5200 Note(1)
$1,200	$950	$900	$250	Note(3)	Note(3)	Note(3)	$350	$100	CF	CF	$600	$200
$1,200	$950	$900	$250	Note(3)	Note(3)	Note(3)	$350	$100	CF	CF	$600	$200
$1,200	$950	$900	$250	Note(3)	Note(3)	Note(3)	$350	$100	CF	CF	$600	$200
$1,200	$950	$900	$250	Note(3)	Note(3)	Note(3)	$350	$100	CF	CF	$600	$200
$1,200	$950	$900	$250	Note(3)	Note(3)	Note(3)	$350	$100	CF	CF	$600	$200
$1,200	$950	$900	$250	Note(3)	Note(3)	Note(3)	$350	$100	CF	CF	$600	$200
$1,200	$950	$900	$250	Note(3)	Note(3)	Note(3)	$350	$100	CF	CF	$600	$200
$1,200	$950	$900	$250	Note(3)	Note(3)	Note(3)	$350	$100	CF	CF	$600	$200

Notes on factory installed options

(1) Application programs require approval of ABB Canada for purchase. Please contact your ABB representative.
(2) The +J414 option (Internal keypad holder) requires the +P905 option (Integrated Control unit)
(3) These mechanical options must be ordered as separate field kits
(4) Requires Option +E208 Common Mode Filter

Field Installed mounting kits for ACS880-04

		DS-OPT (BUS-ZP)	
Plus Code	Description	Field Kit Code	List Price
C173	Flat mounting - includes mounting brackets (not to be used with +H381, full cabling panel nor with +P905, integrated control unit options)	3AXD50000019535	$400
H370	Full size cable connection terminals for input AC power cables (not to be used with +H381, full cabling panel, option)	3AXD50000019542	$250
H381 R10	Full power cabling panels to be attached to cabinet. Drive module can be pulled out from cabinet without disconnecting the power cables. Frame R10	3AXD50000019546	$2,000
H381 R11	Full power cabling panels to be attached to cabinet. Drive module can be pulled out from cabinet without disconnecting the power cables. Frame R11	3AXD50000019533	$2,000

ACS880-04XT drive module packages - Construction

04XT = two drive modules (2xR10 or 2xR11) to be installed in an enclosure, IP00 (UL open type), bookshelf mounting with pedestal, external BCU-02 control unit, 3m cables for connecting the control unit to the drive module, inbuild choke, terminals for input and motor and DC connection, no EMC filter, common mode filter (+E208), one ramp, Primary control program, Safe torque off, Boards with coating, memory stick including all manuals with all available languages.

460V NEMA Ratings - ACS880-04XT drive module packages

380...500 V AC 3-phase +10%/-15%.

DS-A884 (BUS-Z7)	Drive type ACS880-04XT	Max. current		Output Ratings				Frame Size	List Price	Braking chopper	EMC/RFI-filter, Cat C3, 2nd Env., Earthed / Unearthed Network
				Light-duty use		Heavy-duty use					
		I_{max}	I_{max_start}	I_{Ld}	P_{Ld}	I_{Hd}	P_{Hd}				
		A	A	A	HP	A	HP			D150	E200
	ACS880-04XT-1010A-5	1270	1441	997	900	720	600	2xR10	$74,300	$6,000	N/A
	ACS880-04XT-1160A-5	1343	1755	1146	1000	878	700	2xR10	$82,700	$6,000	N/A
	ACS880-04XT-1310A-5	1564	2024	1297	1000	1041	900	2xR11	$88,500	$6,000	N/A
	ACS880-04XT-1610A-5	2024	2024	1570	1250	1282*	1000	2xR11	$99,500	$6,000	N/A

600V NEMA Ratings - ACS880-04XT drive module packages

525…690 V AC 3-phase +10%/-15% (600V UL, CSA)

DS-A884 (BUS-Z7)	Drive type ACS880-04XT	Max. current		Output Ratings				Frame Size	List Price	Braking chopper	EMC/RFI-filter, Cat C3, 2nd Env., Earthed / Unearthed Network
				Light-duty use		Heavy-duty use					
		I_{max}	I_{max_start}	I_{Ld}	P_{Ld}	I_{Hd}	P_{Hd}				
		A	A	A	HP	A	HP			D150	E200
	ACS880-04XT-0810A-7	1017	1356	791	800	678**	700	2xR10	$71,100	$6,000	$2,200
	ACS880-04XT-0960A-7	1260	1674	929	1000	837	800	2xR11	$81,100	$6,000	$2,200
	ACS880-04XT-1080A-7	1472	1858	1051	1000	929	1000	2xR11	$86,500	$6,000	$2,200
	ACS880-04XT-1320A-7	1509	2024	1297	1250	1051**	1000	2xR11	$113,500	$6,000	$2,200

I_{max}	Maximum output current. Available for 10 seconds at start, otherwise as long as allowed by drive temperature. 140% … 200% of IHd, depending on power rating.
I_{max_start}	Maximum output current at start. Available for two seconds only at start every seven seconds if start current limit is activated by parameter 30.15 Maximum start current.
I_{Ld}	Continuous rms output current allowing 10% overload for 1 minute every 5 minutes
P_{Ld}	Typical motor power for light-overload use.
I_{Hd}	Continuous rms output current allowing 50% overload for 1 minute every 5 minutes. *Continuous rms output current allowing 45% overload for 1 minute every 5 minutes **Continuous rms output current allowing 44% overload for 1 minute every 5 minutes
P_{Hd}	Typical motor power for heavy-duty use.

460V NEMA Ratings - ACS880-04XT drive module packages

380...500 V AC 3-phase +10%/-15%.

EMC/RFI-filter, Cat C3, 2nd Env., Unearthed Network (IT)	Common mode filter (CMC)	Flat mounting kit (3AXD50000024562)	Full size cable connection terminals for input cables (3AXD50000024518)	Full size cable connection terminals for output cables (3AXD50000024519)
E201	-	-	*See note (1)*	*See note (1)*
N/A	Included	$400	$250	$250
N/A	Included	$400	$250	$250
N/A	Included	$400	$250	$250
N/A	Included	$400	$250	$250

600V NEMA Ratings - ACS880-04XT drive module packages

525…690 V AC 3-phase +10%/-15% (600V UL, CSA)

EMC/RFI-filter, Cat C3, 2nd Env., Unearthed Network (IT)	Common mode filter (CMC)	Flat mounting kit (3AXD50000024562)	Full size cable connection terminals for input cables (3AXD50000024518)	Full size cable connection terminals for output cables (3AXD50000024519)
E201	-	-	*See note (1)*	*See note (1)*
$2,200	Included	$400	$250	$250
$2,200	Included	$400	$250	$250
$2,200	Included	$400	$250	$250
$2,200	Included	$400	$250	$250

Notes on factory installed options

(1) IMPORTANT: These mechanical options must be ordered as separate field kits. Two (2) kits are required per Drive Module Package.

(2) Control Panel and Accessories must be ordered separately (ACS-AP-W Assistant control panel, mountink kit)

ACS880-07 Cabinet-built single drives - Construction

Frame Size R6 to R11
07 = Cabinet-built, IP22 (UL type1), Main switch and aR fuses, Assistant control panel (W), No EMC filter, Primary control program, Safe torque-off, Boards with coating, Bottom entry and exit of cables, Cable lead through entry, One set of default electric documents in USB stick.

Frame Size nxR8i
07 = Cabinet-built, IP22 (UL type1), Main switch, aR fuses, Assistant control panel (W), DDCS communication RDCO-04, EMC/RFI-filter Cat.C3 2nd Env, Du/dt limitation by choke, Common mode filter, Primary control program, Safe torque-off, Boards with coating, Bottom entry and exit of cables, Cable lead through entry, One set of default electric documents in USB stick.

460V NEMA Ratings - ACS880-07 Cabinet-built single drives

380…500 VAC 3-phase +10%…-15%.

DS-CAB8	Drive type ACS880-07 (+C134 CSA approved)	Output Ratings					Frame Size	List Price	IP54 (NEMA 12)
		Max. current	Light-duty use		Heavy-duty use				
		I_{max}	I_{Ld}	P_{Ld}	I_{Hd}	P_{Hd}			
		A	A	HP	A	HP			B055
	ACS880-07-0124A-5+C134	178	124	100	96	75	R6	$11,282	$1,900
	ACS880-07-0156A-5+C134	247	156	125	124	100	R7	$13,050	$1,900
	ACS880-07-0180A-5+C134	287	180	150	156	125	R7	$14,600	$1,900
	ACS880-07-0240A-5+C134	350	240	200	180	150	R8	$17,500	$1,900
	ACS880-07-0361A-5+C134	542	361	300	302	250	R9	$26,200	$2,250
	ACS880-07-0414A-5+C134	542	393	350	361*	300	R9	$29,000	$2,750
	ACS880-07-0503A-5+C134	560	483	400	361	300	R10	$38,650	$2,750
	ACS880-07-0583A-5+C134	730	573	450	414	350	R10	$45,650	$2,750
	ACS880-07-0635A-5+C134	730	623	500	477	400	R10	$50,650	$2,750
	ACS880-07-0715A-5+C134	850	705	600	566	450	R11	$55,140	$2,750
	ACS880-07-0820A-5+C134	1020	807	700	625	500	R11	$65,650	$2,750
	ACS880-07-0880A-5+C134	1100	857	700	697**	600	R11	$78,150	$2,750
	ACS880-07-1070A-5+C134+H366	1391	1027	900	800	700	1xD8T+2xR8i	*Contact ABB for pricing*	
	ACS880-07-1320A-5+C134+F255+H366	1716	1267	1000	987	900	2xD8T+2xR8i	*Contact ABB for pricing*	
	ACS880-07-1450A-5+C134+F255+H366	1890	1392	1200	1085	900	2xD8T+2xR8i	*Contact ABB for pricing*	
	ACS880-07-1580A-5+C134+F255+H366	2060	1517	1250	1182	1000	2xD8T+2xR8i	*Contact ABB for pricing*	
	ACS880-07-1800A-5+C134+F255+H366	2340	1728	1500	1346	1100	2xD8T+3xR8i	*Contact ABB for pricing*	
	ACS880-07-1980A-5+C134+F255+H366	2574	1901	1500	1481	1250	2xD8T+3xR8i	*Contact ABB for pricing*	

I_{max}	Maximum output current. Available for 10 seconds at start, otherwise as long as allowed by drive temperature. 140% … 200% of IHd, depending on power rating.
I_{Ld}	Continuous rms output current allowing 10% overload for 1 minute every 5 minutes
P_{Ld}	Typical motor power for light-overload use.
I_{Hd}	Continuous rms output current allowing 50% overload for 1 minute every 5 minutes. * Continuous rms output current allowing 25% overload for 1 minute every 5 minutes. **Continuous rms output current allowing 40% overload for 1 minute every 5 minutes
P_{Hd}	Typical motor power for heavy-duty use.

460V NEMA Ratings - ACS880-07 Cabinet-built single drives

380…500 VAC 3-phase +10%…-15%.

Braking chopper	Du/dt Filter	Common mode filter	Output for Motor heater	Ready Pilot light, white	Run Pilot light, green	Fault Pilot light, red	Top Entry	Top Exit	Additional terminal block X504	Pt 100 Relay 8 pcs for ACS800-x7	E-Stop, cat. 0 without opening main contactor breaker with safety relay	SS1, E-Stop, cat. 1 without opening main contactor breaker with safety relay
D150	**E205**	**E208**	**G313**	**G327**	**G328**	**G329**	**H351**	**H353**	**L504**	**8L506**	**Q963**	**Q964+L501**
$ 630	$ 1,500	$ 650	$ 475	$ 227	$ 227	$ 227	$ 450	$ 450	$ 255	$ 5,000	$ 2,000	$ 3,600
$ 751	$ 1,500	$ 650	$ 475	$ 227	$ 227	$ 227	$ 450	$ 450	$ 255	$ 5,000	$ 2,000	$ 3,600
$ 751	$ 1,800	$ 650	$ 475	$ 227	$ 227	$ 227	$ 450	$ 450	$ 255	$ 5,000	$ 2,000	$ 3,600
$ 1,350	$ 1,800	$ 650	$ 475	$ 227	$ 227	$ 227	$ 450	$ 450	$ 255	$ 5,000	$ 2,000	$ 3,600
$ 1,610	$ 2,500	$ 650	$ 475	$ 227	$ 227	$ 227	$ 450	$ 450	$ 255	$ 5,000	$ 2,000	$ 3,600
$ 1,610	$ 2,500	$ 650	$ 475	$ 227	$ 227	$ 227	$ 450	$ 450	$ 255	$ 5,000	$ 2,000	$ 3,600
$ 2,330	$ 3,000	$ 650	$ 475	$ 227	$ 227	$ 227	$ 450	$ 450	$ 255	$ 5,000	$ 2,000	$ 3,600
$ 2,330	$ 3,000	$ 650	$ 475	$ 227	$ 227	$ 227	$ 450	$ 450	$ 255	$ 5,000	$ 2,000	$ 3,600
$ 2,330	$ 3,000	$ 650	$ 475	$ 227	$ 227	$ 227	$ 450	$ 450	$ 255	$ 5,000	$ 2,000	$ 3,600
$ 2,330	$ 3,000	$ 650	$ 475	$ 227	$ 227	$ 227	$ 450	$ 450	$ 255	$ 5,000	$ 2,000	$ 3,600
$ 2,330	$ 3,000	$ 650	$ 475	$ 227	$ 227	$ 227	$ 450	$ 450	$ 255	$ 5,000	$ 2,000	$ 3,600
$ 2,330	$ 3,000	$ 650	$ 475	$ 227	$ 227	$ 227	$ 450	$ 450	$ 255	$ 5,000	$ 2,000	$ 3,600
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Contact ABB for pricing												

Notes on factory installed options

Further options and configurations are available, please contact you local ABB representative or CA-drives.rfq@abb.com

Notes on option codes

F255 - Air circuit breaker

H359 - Common motor terminal cubicle

H366 - Common output terminal

ACS880-07 Cabinet-built single drives - Construction

Frame Size R6 to R11
07 = Cabinet-built, IP22 (UL type1), Main switch and aR fuses, Assistant control panel (W), No EMC filter, Primary control program, Safe torque-off, Boards with coating, Bottom entry and exit of cables, Cable lead through entry, One set of default electric documents in USB stick

Frame Size nxR8i
07 = Cabinet-built, IP22 (UL type1), Main switch, aR fuses, Assistant control panel (W), DDCS communication RDCO-04, EMC/RFI-filter Cat.C3 2nd Env, Du/dt limitation by choke, Common mode filter, Primary control program, Safe torque-off, Boards with coating, Bottom entry and exit of cables, Cable lead through entry, One set of default electric documents in USB stick.

600V NEMA Ratings - ACS880-07 Cabinet-built single drives

525…690 V AC 3-phase +10%/-15% (600V UL, CSA)

DS-CAB8	Drive type ACS880-07 (+C134 CSA approved)	Output Ratings					Frame Size	List Price	IP54 (NEMA 12)
		Max. current	Light-duty use		Heavy-duty use				
		I_{max}	I_{Ld}	P_{Ld}	I_{Hd}	P_{Hd}			
		A	A	HP	A	HP			B055
	ACS880-07-0084A-7+C134	124	77	75	62	60	R6	$15,250	$1,900
	ACS880-07-0098A-7+C134	168	99	100	77	75	R7	$15,682	$1,900
	ACS880-07-0119A-7+C134	198	125	125	99	100	R7	$17,482	$1,900
	ACS880-07-0142A-7+C134	250	144	150	125	125	R8	$18,970	$1,900
	ACS880-07-0174A-7+C134 *(See Note 1)*	274	*180*	200	144	150	R8	$20,500	$1,900
	ACS880-07-0210A-7+C134	384	242	250	192	200	R9	$23,450	$2,350
	ACS880-07-0271A-7+C134 *(See Note 2)*	411	271	*250*	242*	250	R9	$26,200	$2,350
	ACS880-07-0330A-7+C134	480	336	350	255	250	R10	$27,650	$2,750
	ACS880-07-0370A-7+C134	520	382	400	325	300	R10	$29,000	$2,750
	ACS880-07-0430A-7+C134	540	424	450	360**	350	R10	$35,500	$2,750
	ACS880-07-0470A-7+C134	655	472	500	415	450	R11	$43,450	$2,750
	ACS880-07-0522A-7+C134	685	528	550	455	450	R11	$48,750	$2,750
	ACS880-07-0590A-7+C134	800	571	600	505	500	R11	$55,650	$2,750
	ACS880-07-0650A-7+C134	825	630	700	571**	600	R11	$68,650	$2,750
	ACS880-07-0721A-7+C134	825	705	700	571**	600	R11	$75,650	$2,750
	ACS880-07-0800A-7+C134+H366	1200	768	800	598	600	1xD8T+2xR8i	*Contact ABB for pricing*	
	ACS880-07-0900A-7+C134+H366	1350	864	900	673	700	1xD8T+2xR8i	*Contact ABB for pricing*	
	ACS880-07-1160A-7+C134+H366	1740	1114	1250	868	900	2xD8T+2xR8i	*Contact ABB for pricing*	
	ACS880-07-1450A-7+C134+F255+H366	2175	1392	1500	1085	1100	2xD8T+3xR8i	*Contact ABB for pricing*	
	ACS880-07-1650A-7+C134+F255+H366	2475	1584	1750	1234	1250	2xD8T+3xR8i	*Contact ABB for pricing*	
	ACS880-07-1950A-7+C134+F255+H366	2925	1872	2000	1459	1500	3xD8T+4xR8i	*Contact ABB for pricing*	
	ACS880-07-2300A-7+C134+F255+H366	3450	2208	2250	1720	1750	3xD8T+4xR8i	*Contact ABB for pricing*	
	ACS880-07-2600A-7+C134+F255+H359	3900	2496	2700	1945	2000	4xD8T+5xR8i	*Contact ABB for pricing*	
	ACS880-07-2860A-7+C134+F255+H359	4290	2746	2900	2139	2250	4xD8T+5xR8i	*Contact ABB for pricing*	

I_{max}	Maximum output current. Available for 10 seconds at start, otherwise as long as allowed by drive temperature. 140% … 200% of IHd, depending on power rating.
I_N	Rated current available continuously without overloadability at 40 °C.
I_{Ld}	Continuous rms output current allowing 10% overload for 1 minute every 5 minutes
P_{Ld}	Typical motor power for light-overload use.
I_{Hd}	Continuous rms output current allowing 50% overload for 1 minute every 5 minutes. * Continuous rms output current allowing 30% overload for 1 minute every 5 minutes. **Continuous rms output current allowing 44% overload for 1 minute every 5 minutes
P_{Hd}	Typical motor power for heavy-duty use.

Notes on ratings

Note 1 – ACS880-07-0174A-7 amp rating: The drive can deliver 192 A continuously with no overload.

Note 2 – ACS880-07-0271A-7 power rating: The power rating is as per NEC Table 42.1. However, the drive can be used for a typical 4-pole motor rated to 300 hp meeting NEMA MG 1 Table 12-11 minimum efficiency standard (EPAct efficiency electrical motors) if motor full load current is not more than 271 A.

600V NEMA Ratings - ACS880-07 Cabinet-built single drives

525…690 V AC 3-phase +10%/-15% (600V UL, CSA)

Braking chopper	Du/dt Filter	Common mode filter	Output for Motor heater	Ready Pilot light, white	Run Pilot light, green	Fault Pilot light, red	Top Entry	Top Exit	Additional terminal block X504	Pt 100 Relay 8 pcs for ACS800-x7	E-Stop, cat. 0 without opening main contactor breaker with safety relay	SS1, E-Stop, cat. 1 without opening main contactor breaker with safety relay
D150	**E205**	**E208**	**G313**	**G327**	**G328**	**G329**	**H351**	**H353**	**L504**	**8L506**	**Q963**	**Q964+L501**
$ 751	$ 1,500	$ 650	$ 475	$ 227	$ 227	$ 227	$ 450	$ 450	$ 255	$ 5,000	$ 2,000	$ 3,600
$ 751	$ 1,500	$ 650	$ 475	$ 227	$ 227	$ 227	$ 450	$ 450	$ 255	$ 5,000	$ 2,000	$ 3,600
$ 751	$ 1,500	$ 650	$ 475	$ 227	$ 227	$ 227	$ 450	$ 450	$ 255	$ 5,000	$ 2,000	$ 3,600
$ 1,023	$ 1,800	$ 650	$ 475	$ 227	$ 227	$ 227	$ 450	$ 450	$ 255	$ 5,000	$ 2,000	$ 3,600
$ 1,023	$ 1,800	$ 650	$ 475	$ 227	$ 227	$ 227	$ 450	$ 450	$ 255	$ 5,000	$ 2,000	$ 3,600
$ 1,610	$ 1,800	$ 650	$ 475	$ 227	$ 227	$ 227	$ 450	$ 450	$ 255	$ 5,000	$ 2,000	$ 3,600
$ 1,610	$ 1,800	$ 650	$ 475	$ 227	$ 227	$ 227	$ 450	$ 450	$ 255	$ 5,000	$ 2,000	$ 3,600
$ 2,330	$ 3,000	$ 650	$ 475	$ 227	$ 227	$ 227	$ 450	$ 450	$ 255	$ 5,000	$ 2,000	$ 3,600
$ 2,330	$ 3,000	$ 650	$ 475	$ 227	$ 227	$ 227	$ 450	$ 450	$ 255	$ 5,000	$ 2,000	$ 3,600
$ 2,330	$ 3,000	$ 650	$ 475	$ 227	$ 227	$ 227	$ 450	$ 450	$ 255	$ 5,000	$ 2,000	$ 3,600
$ 2,330	$ 3,000	$ 650	$ 475	$ 227	$ 227	$ 227	$ 450	$ 450	$ 255	$ 5,000	$ 2,000	$ 3,600
$ 2,330	$ 3,000	$ 650	$ 475	$ 227	$ 227	$ 227	$ 450	$ 450	$ 255	$ 5,000	$ 2,000	$ 3,600
$ 2,330	$ 3,000	$ 650	$ 475	$ 227	$ 227	$ 227	$ 450	$ 450	$ 255	$ 5,000	$ 2,000	$ 3,600
$ 2,330	$ 3,000	$ 650	$ 475	$ 227	$ 227	$ 227	$ 450	$ 450	$ 255	$ 5,000	$ 2,000	$ 3,600
$ 2,330	$ 3,000	$ 650	$ 475	$ 227	$ 227	$ 227	$ 450	$ 450	$ 255	$ 5,000	$ 2,000	$ 3,600
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Notes on factory installed options

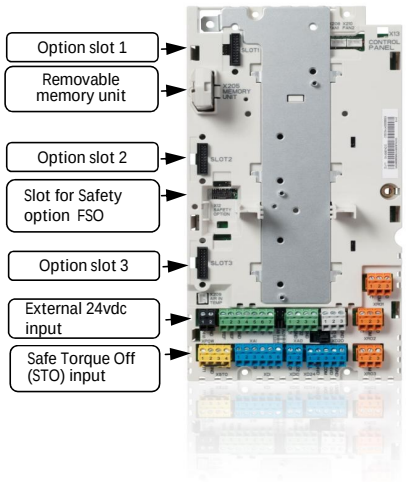
Further options and configurations are available, please contact you local ABB representative or CA-drives.rfq@abb.com

Notes on option codes

F255 - Air circuit breaker
H359 - Common motor terminal cubicle
H366 - Common output terminal

Common Options

The ACS880 control unit; standard I/O and common options



Standard I/O set

- 2 analog inputs, 2 analog outputs
- 6 digital inputs, 3 relay outputs
- 1 digital input interlock
- 2 digital inputs/outputs (freely programmable)
- External 24V power input
- Safe Torque Off (STO, SIL3/PLe) input
- Removable memory unit

Extension I/O modules available

Location	Digital inputs (DI)	Digital I/Os (DIO)	Analog inputs (AI)	Analog outputs (AO)	Relay outputs (RO)
Control unit	6 + DIIL	2	2	2	3
FIO-01	-	4	-	-	2
FIO-11	-	2	3	1	-
FAIO-01	-	-	2	2	-
FDIO-01	3	-	-	-	2

- Three(3) I/O extension modules can be installed simultaneously.

Speed Feedback modules

- HTL incremental encoder
- TTL incremental encoder*
- Resolver + TTL encoder
- SinCos absolute encoder + TTL encoder
- Drive can accommodate two encoder modules installed in any of the three (3) option slots.

FieldBus Adapter modules

- Devicenet
- EtherNet IP
- Profinet
- Profibus
- ControlNet
- Modbus TCP
- Modbus RTU
- Powerlink
- EtherCAT
- Drive can accommodate two fieldbus adapters installed simultaneously (slot 1 and 2)

DDCS Fiber Optic network adapter module

- One (1) FDCO-0x fiber optic adapter module can be installed in any of the three(3) option slots.

Safety Functions Option module (FSO)

- The safety functions module (FSO) has its own connector. In frame sizes R1-R5, the module occupies Option slot 2.
- In frame sizes R6-R9, the module is mounted in dedicated mounting hole and does not occupy Option slot 2.
- Only one (1) safety functions module (FSO) can be installed.

- **FEA-03 F-series extension adapter**
- Each extension module has two (2) I/O slots.
- Up to 3 FEA-03 modules can be connected to a single ACS880.
- Requires FDC0-0x adapter and fiber optic cables.
- Only FEN I/O extension modules and FEN encoder modules can be mounted on FEA-03.
- Note: Does not increase the maximum absolute number of I/O or encoder cards that can be connected to drive.

Input / Output Options		DS-OPT (BUS-ZP)	
Name	Description	Field Kit Code	List Price
Analog I/O Extension Module	Analog I/O extension - has three bi-polar current (-20 to +20 mA) or bi-polar voltage (-10 to +10V) inputs and one uni-polar current (0[4] to 20 mA) output. It also has two 24Vdc digital input/output's (can be configured either way, 50mA source, 50mA sink). Analog inputs are 16 bit resolution;outputs are 12 bit. Analog and digital I/O are galvanically isolated as a group, from each other and the power supply..	FIO11	$375
Analog I/O Extension Module	The FAIO-01 analog I/O extension module has two bipolar/unipolar current/voltage inputs and two unipolar current outputs. FAIO-01 has basic insulation against the drive control unit ground, but together with basic-insulated motor temperature sensors,FAIO-01 forms double insulation. This allows you to measure, for example, motor winding temperature without a double or reinforced insulation requirement on the measuring element.	FAIO01	$450
Digital I/O Extension Module	Digital I/O extension - has four 24Vdc digital input/output's (can be configured either way, 50mA source, 500mA sink), and two form C (NO/NC) relay outputs (2 Amps at 240 Vac). The I/O is galvanically isolated as a group. Relay outputs have reinforced isolation.	FIO01	$375
Digital I/O Extension Module	Digital I/O extension - has three 24…250 V DC or 110…230 V AC digital input/output's (can be configured either way, 50mA source, 500mA sink), and two form C (NO/NC) relay outputs (2 Amps at 240 Vac). The I/O is galvanically isolated as a group. Relay outputs have reinforced isolation.	FDIO01	$400
TTL encoder interface	TTL incremental pulse encoder interface (with commutation signal and PTC thermistor support)- is capable of operating two differential encoders at 5.5 or 24 Vdc with a maximum frequency of 500 kHz. It also can emulate a TTL differential encoder output up to a maximum frequency of 500 kHz.	FEN01	$375
Absolute encoder interface	Absolute encoder interface (with PTC/KTY support) - has one absolute encoder input, one TTL encoder input, and one TTL encoder emulator output. The absolute encoder input supports a Sin/Cos incremental encoder, Endat 2.1, Endat 2.2, hiperface, or SSI with Sin/Cos signals at 5.5or 8 Vdc. The TTL encoder input can operate at 5.5 or 24 Vdc. Both the encoder input and encoder emulator output are differential with a maximum frequency of 500 kHz.	FEN11	$375
Resolver interface	Resolver interface (with PTC/KTY support) - has one resolver input, one TTL differential encoder input, and one TTL differential encoder emulator output. Resolver excitation amplitude and frequency are adjustable by software from 1 to 20 kHz and 4 to 12 Vrms. Transformation ratio of the resolver must be such that sine and cosine signals remains in the range of 2 to 7 Vrms. The TTL encoder input can operate at 5.5 or 24 Vdc. Both the encoder input and encoder emulator output are differential with a maximum frequency of 500 kHz.	FEN21	$375
HTL encoder interface	HTL incremental pulse encoder interface (with PTC/KTY support) - has one HTL encoder input and one TTL differential encoder emulator output. The HTL input supports differential push-pull, single-ended push-pull, open collector, and open emitter HTL encoders, up to 300 kHz at 15 or 24 Vdc. The TTL differential encoder output has a maximum frequency of 500 kHz.	FEN31	$375
DDCS Communications Board	The FDCO-01 module includes the connectors for fiber optic DDCS link. The usage of these channels is determined by the application, please refer to hardware manual. **CH0 10 MBd / CH1 10 MBd**	FDCO01	$350
DDCS Communications Board	The FDCO-01 module includes the connectors for fiber optic DDCS link. The usage of these channels is determined by the application, please refer to hardware manual. **CH0 5 MBd / CH1 10 MBd**	FDCO02	$350
I/O Extension adapter	The FEA-03 is an extension adapter that is used to install I/O extension modules and FEN encoder interface modules outside the drive unit.Requires FDC0-0x adapter and fiber optic cables.Up to two option modules can be installed on one extension adapter. The extension adapter is connected to the drive via a fiber-optic link using the DDCS protocol. **Requires FDC0-0x adapter and fiber optic cables.**	FEA03	$800

FieldBus Communication Options

Name	Description	DS-OPT (BUS-ZP) Field Kit Code	List Price
DeviceNet Adapter	DeviceNet slave network adapter	FDNA01	$312
ProfiBus-DP Adapter	ProfiBus DP slave network adapter	FPBA01	$348
CANopen Adapter	CANOpen network adapter	FCAN01	$390
Modbus RTU Adapter	RS-485 Adapter Module supports the Modbus/RTU protocol - slave	FSCA01	$390
EtherNet Adapter	Ethernet link adapter supports the Modbus®-TCP and Ethernet/IP™and Profinet RT network protocols.	FENA11	$465
EtherNet Adapter Dual Port	Ethernet link adapter supports the Modbus®-TCP and Ethernet/IP™and Profinet RT network protocols. Dual Port-Supports ring topology DLR.	FENA21	$600
Ethernet PowerLink Adapter	Ethernet link adapter supports the Powerlink network protocol	FEPL02	$530
EtherCAT Adapter	EtherCAT network adapter	FECA01	$530
ControlNet Adapter	ControlNet slave network adapter	FCNA01	$850

Remote Monitoring

Name	Description	DS-OPT (BUS-ZP) Field Kit Code	List Price
Remote Monitoring Adapter	The NETA-21 remote monitoring tool is used for browser-based remote monitoring of ABB drives via Ethernet.	NETA21	$2,200
DDCS option kit	DDCS option kit for NETA-21 remote monitoring tool	NEXA21	$250

Control Panel & Panel Accessories

Name	Description	DS-OPT (BUS-ZP) Field Kit Code	List Price
Control Panel	ACS880 control panel with Bluetooth compatibility	ACSAPW	$450
Panel Mounting kit	Panel flush mounting kit (With 3m CAT5 cable, DDPI board, No Panel)	DPMP01	$375
Panel Mounting kit	Panel surface mounting kit (With 3m CAT5 cable, No Panel,)	DPMP02	$100

Programming software

Name	Description	DS-OPT (BUS-ZP) Field Kit Code	List Price
Drive composer Pro	Drive composer Pro software (1 licence for 1 user)	3AUA0000108087	$2,650
Drive composer Pro	Drive composer Pro software (1 licence for 10 users)	3AUA0000145150	$20,000
Drive composer Pro	Drive composer Pro software (1 licence for 20 users)	3AUA0000145151	$30,000

Functional Safety Options

Name	Description	DS-OPT (BUS-ZP) Field Kit Code	List Price
Functional safety module	Functional safety module SIL3/Ple rated performs Safety functions; POUS (Prevention of unexpected start with ack output) SLS (Safely Limited Speed) / SBC (Safe Brake Control) SS1(Safe Stop 1) / SSE(Safe emergency stop) SMS(Safe Maximum Speed) Variable Safely limited spped (SLS) with PROFIsafe over Ethernet. PROFIsafe connection to a safety PLC through the FENA Ethernet adapter module using the PROFIsafe profile of PROFINET. **KIT includes connector cables for STO and Data interface and all required mounting hardware for ACS880 frames R1-R9.**	FSO12KIT	$1,400
Functional safety module	Functional safety module SIL3/Ple rated performs Safety functions; POUS (Prevention of unexpected start with ack output) SLS (Safely Limited Speed) / SBC (Safe Brake Control) SS1(Safe Stop 1) / SSE(Safe emergency stop) SMS(Safe Maximum Speed) / SSM (Safe speed monitor) / SDI (Safe Direction. **Support of FSE-31 closed loop speed monitoring.** Variable Safely limited spped (SLS) with PROFIsafe over Ethernet. PROFIsafe connection to a safety PLC through the FENA Ethernet adapter module using the PROFIsafe profile of PROFINET. **KIT includes connector cables for STO and Data interface and all required mounting hardware for ACS880 frames R1-R9.**	FSO21KIT	$2,200
Safe encoder module	Safe encoder module to be used in combination with FS021KIT	FSE31	$600
Thermistor Protection	Thermistor protection module for motor	FPTC01	$400
Thermistor Protection	Thermistor protection module to perform the Safe motor temperature safety	FPTC02	$400

Flange mounting kit for ACS880-01

Frame Size	Description	DS-OPT (BUS-ZP) Field Kit Code	List Price
R0-R1	The flange mounting kit contains brackets for attaching the drive onto a mounting plate so that the heat sink of the drive is in the cooling air channel and the front part on the other side of the mounting plate. It is compatible with both UL type 1 and UL type 12 ACS880-01 drives.	3AXD50000024175	$600
R2		3AXD50000024176	$600
R3		3AXD50000024177	$600
R4		3AXD50000024178	$600
R5		3AXD50000021517	$600
R6		3AXD50000018852	$600
R7		3AXD50000018853	$600
R8		3AXD50000018854	$600
R9		3AXD50000018855	$600

Common mode filter kit for ACS880-01

Frame Size	Description	DS-OPT (BUS-ZP) Field Kit Code	List Price
R6	This kit includes a common mode choke (toroid) and mounting hardware to be installed in conduit box of ACS880-01 frames R6-R11.	3AXD50000017269	$500
R7		3AXD50000017270	$500
R8		3AXD50000018001	$650
R9		3AXD50000017940	$650
R10/R11		3AXD50000026145	$950

ACS880 Democases

Frame Size	Description	DS-OPT (BUS-ZP) Field Kit Code	List Price
Full democase	Demo unit with carry case includes motor, drive and pre-wired I/O terminals. Supply voltage is 120Vac.	3AUA0000158872	$6,000
Light democase	Democase Light with motor simulator. This unit is light weight and ideal for Sales demos. Supply voltage is 120Vac.	3AUA0000108244	$1,900

Memory unit containing application programming licence

Name	Description	DS-OPT (BUS-ZP) Field Kit Code	List Price
ACS880ZMU+IEC	Memory unit containing IEC application programming licence	ACS880ZMU+IEC	$948
ACS880ZMU+CRANE	Memory unit containing Crane application programming licence	ACS880ZMU+CRANE	$948
ACS880ZMU+PCPESP	Memory unit containing PCP/ESP application programming licence	ACS880ZMU+PCPESP	$316
ACS880ZMU+WINCH	Memory unit containing Winch application programming licence	ACS880ZMU+WINCH	$948

Automation Builder software

Name	Description	Field Kit Code	List Price
Automation Builder software	Automation Builder Engineering suite	ABB Automation Builder	Consult ABB

ACS880-01 Type Code Sheet

1 - 250 kW, Wall-mounted

1…6 **A C S 8 8 0** **Product Series**

7…9 **- 0 1** **Construction**

01 = Wall-mounted, IP21 (UL type 1), Assistant control panel, Inbuild choke, No EMC filter, Primary control program, Safe torque-off, Cable lead through entry, Braking chopper in frame sizes R1, R2, R3 and R4, Boards with coating, Quick guides with default set of languages, CD including all manuals with all available languages.

10…14 **-** **Size**

	Frame Size R1		Frame Size R2	Frame Size R3	Frame Size R4	Frame Size R5	Frame Size R6	Frame Size R7	Frame Size R8	Frame Size R9
208…240V	04A6	07A5	16A8	031A	046A	075A	115A	170A	274A	
	06A6	10A6	24A3		061A	087A	145A	206A		
380…415V	02A4	07A2	017A	032A	045A	072A	105A	169A	246A	363A
	03A3	09A4	025A	038A	061A	087A	145A	206A	293A	430A
	04A0	12A6								
	05A6									
380...500V	02A1	05A2	014A	027A	040A	065A	096A	156A	240A	302A
	03A0	07A6	021A	034A	052A	077A	124A	180A	260A	361A
	03A4	11A0								414A
	04A8									
525…690V						07A3	026A	061A	098A	142A	210A
						09A8	035A	084A	119A	174A	271A
						14A2	042A				
						018A	049A				
						022A					

15…16 **-** **Voltage Rating**

2 = 208...240 V 3 = 380…415 V 5 = 380…500V 7 = 525…690V

Resistor braking

☐	D150	Brake chopper	*Included as standard in frame sizes R1, R2, R3 and R4*

Control programs

☐	N5000	Winder control program	*Available on request*
☐	N5050	Crane control program	*Available on request*
☐	N5150	Centrifuge control program	
☐	N5200	PCP/ESP control program	

Protection class

☐	B056	IP55 (UL type 12)

Filters

☐	E200	EMC/RFI-filter, Cat. C3, 2nd Env., Earthed Network (TN) 230V frames R1 - R8, 400V and 500V frames R1 - R9, 690V frames R5 - R9
☐	E201	EMC/RFI-filter, Cat. C3, 2nd Env., Unearthed Network (IT) 230V frames R6 - R8, 400V and 500V frames R6 - R9, 690V frames R7 - R9
☐	E202	EMC/RFI-filter, Cat. C2, 1st Env., Earthed Network (TN) 230V frames R1 - R8, 400V and 500V frames R1 - R9

ACS880-04 Type Code Sheet — 250 - 630 kW, Drive module

1…6 **A C S 8 8 0** — **Product Series**

7…9 **- 0 4** — **Construction**

04 = Module to be installed in an enclosure, IP20 (UL open type) as standard, bookshelf mounting with pedestal, external control unit, control panel and control panel holder, inbuild choke, including full size output terminals, no EMC filter, no DC connection busbars, Primary control program, Safe torque off, Boards with coating, Quick guides, CD including all manuals with all available languages.

10…14 **-** — **Size**

	Frame Size R10	Frame Size R11
380…415V	505A	725A
	585A	820A
	650A	880A
380...500V	460A	715A
	503A	820A
	583A	880A
	635A	
575…690V	330A	470A
	370A	522A
	430A	590A
		650A
		721A

15…16 **-** — **Voltage Rating**

3 = 380…415 V 5 = 380…500V 7 = 525…690V

Control programs

☐	N5000	Winder control program
☐	N5050	Crane control program
☐	N5150	Centrifuge control program
☐	N5200	PCP/ESP control program

Control panel and control unit mechanics

☐	P905	Integrated control unit (inside drive module) (not possible with C173, flat mounting, option) - requires also selection of either J414, J410 or 0J400 option
☐	J410	DPMP-01 door mounting kit (flush mounting) for the panel (incl. control panel mounting platform, IP54 kit and 3 m cable)
☐	J414	Control panel holder integrated in the unit (requires P905, integrated control unit, option)

Filters

☐	E200	EMC/RFI-filter, Cat. C3, 2nd Env., Earthed Network (TN)	*For 690V versions*
☐	E201	EMC/RFI-filter, Cat. C3, 2nd Env., Unearthed Network (IT)	*For 690V versions*
☐	E202	EMC/RFI-filter, Cat. C2, 1st Env., Earthed Network (TN)	*For 400V and 500V versions, requires E208, common*
☐	E208	Common mode filter	
☐	E210	EMC/RFI-filter, C3, 2nd Environment, Unrestricted (Earthed & Unearthed Networks)	*For 400V and 500V versions*

Resistor braking

☐	D150	Brake chopper

Construction, pedestal and cabling

☐	C173	Flat mounting - includes mounting brackets (not to be used with +H381, full cabling panel nor with +P905, integrated control unit options)
☐	H370	Full size cable connection terminals for input AC power cables (not to be used with +H381, full cabling panel, option)
☐	H381	Full power cabling panels to be attached to a cabinet. The drive module can be pulled out from the cabinet without disconnecting the power cables.
☐	H356	DC connection busbars

ACS880-07 Type Code Sheet — 45 - 630 kW, Cabinet-built

1…6 **A C S 8 8 0** — **Product Series**

7…9 **- 0 7** — **Construction**

07 = Cabinet-built, IP22 (UL type1), Main switch and aR fuses, Assistant control panel, No EMC filter, Primary control program, Safe torque-off, Boards with coating, Bottom entry and exit of cables, Cable lead through entry, One set of default electric documents in USB stick

10…15 **-** — **Size**

Frame Size	R6	R7	R8	R9	R10	R11
500V	0124A	0156A 0180A	0240A 0260A	0361A 0414A	0460A 0503A 0583A 0635A	0715A 0820A
690V		0098A 0119A	0142A 0174A	0210A 0271A	0330A 0370A	0425A 0470A 0522A 0590A 0650A

16…17 **-** — **Voltage Rating**

3 = 400 V 5 = 500 V 7=690 V

Option codes

I/O options — **3/4 slots available for I/O options or fieldbus adapters**

☐	L500	Analog I/O extension		FIO-11
☐	L501	Digital I/O extension		FIO-01
☐	L502	HTL encoder interface		FEN-31
☐	L516	Resolver interface		FEN-21
☐	L517	TTL encoder interface		FEN-01
☐	L518	Absolute encoder interface		FEN-11
☐	L503	DDCS communication 10/10 MBd		FDCO-01
☐	L508	DDCS communication 5/10 MBd		FDCO-02
☐	L504	Additional I/O-Terminal Block		
☐	L505	Thermistor Relay (1 or 2 pcs)	(Can be together with 2L506)	
☐	L506	Pt100 Relay (2, 3, 5 or 8 pcs)	(2L506 can be together with L505)	
☐	L513	ATEX Certified motor thermal protection with PTC relay (1 or 2 pcs) *(requires ATEX safety function, add Q971 to code)*		
☐	L514	ATEX Certified motor thermal protection with Pt100 relay (3, 5 or 8 pcs) *(requires ATEX safety function, add Q971 to code)*		
☐	L515	I/O extension adapter		FEA-03

Fieldbus — **3/4 slots available for I/O options or Fieldbus adapters**

☐	K451	DeviceNet adapter	FDNA-01
☐	K452	LONWorks adapter	FLON-01
☐	K454	PROFIBUS-DP adapter	FPBA-01
☐	K457	CANopen adapter	FCAN-01
☐	K458	Modbus adapter	FSCA-01
☐	K462	ControlNet adapter	FCNA-01
☐	K473	Ethernet adapter (EIP,Modbus/TCP,PROFINET)	FENA-11
☐	K475	Ethernet adapter (EIP,Modbus/TCP,PROFINET, 2-port)	FENA-21
☐	K469	EtherCat adapter	FECA-01
☐	K470	Ethernet POWERLINK adapter	FEPL-01

ACS880-07 Type Code Sheet — 45 - 630 kW, Cabinet-built

Software

Programmability

☐	N8010	Drive application programming	*Programmability with the CODESYS based tool according to IEC 61131-3 standard.* *For programming the Control Builder Plus programming tool is required. It is included in the Automation Builder engineering suite (packaged and produced by the PG PLC&Automation), which should be ordered separately with order code 1SAP193000R0001.*

Protection class

☐	B054	IP42 (UL type 1)
☐	B055	IP54 (UL type 12)
☐	C128	Air inlet through bottom, *requires B055,no input air filter, max ambient 40 degC*
☐	C130	Channeled air outlet, *not available with H351, H353 and C129*

Construction

☐	C121	Marine construction	*Reinforced mechanics and fastening, door handels, self extinctive materials, requires marking of conductors (G338-G342)* *Not available with C129, C134, C164, C179, C180 and E206*
☐	C129	UL listed	*C129 includes US type main switch and fuses, Top entry and exit,US Cable conduit entry, all components UL listed/recognized, max. supply voltage 600*
☐	C134	CSA approved	*C134 Includes US/CSA type main switch fuse, Bottom entry and exit, US Cable conduit entry, all components UL/CSA listed/recognized, max. supply*
☐	C180	Seismic design	*Seismic capability according to International building code 2012, test procedure ICC-ES AC-156. Installation level not to exceed 25% of the building height and S_{DS} <=2.0 g (S_{DS} =installation site specific spectral acceleration response). Not available with C121, C164, C179 and E206*
☐	C164	Plinth height 100 mm *(not available with marine construction C121 or seismic design C180)*	
☐	C179	Plinth height 200 mm *(not available with marine construction C121 or seismic design C180)*	

Filters

☐	E200	EMC/RFI-filter, Cat. C3, 2nd Env., Earthed Network (TN) *(not for 400/500V R10 and R11)*	
☐	E201	EMC/RFI-filter, Cat. C3, 2nd Env., Unearthed Network (IT), *(not for R10, R11 or 690V frame R6)*	
☐	E210	EMC/RFI-filter, Cat. C3, 2nd Env., Earthed/Unearthed Network, *(only for 400/500V R10 and R11)*	
☐	E202	EMC/RFI-filter, Cat. C2, 1st Env., Earthed Network (TN), *(not for 690V and R10, R11)*	
☐	E205	Du/dt limitation by choke *(not for R10 and R11 with UL C129)*	
☐	E208	Common mode filter	*E202 adds width by 200mm for frames R6-R8 and 400mm for frames R10 and R11*
☐	E206	Sine output filter *(only for R10 and R11, not with C121,C129,C134 and C180)*	

Resistor braking

☐	D150	Braking chopper, (*adds width for R10 and R11 by 300mm,* ***not for 690V R10 or R11*** *)*
☐	D151	Braking resistor *(Not with IP54, Marine, UL and CSA)*

Line options

☐	F250	Line contactor
☐	F289	MCCB circuit breaker *(Only for US market)*
☐	F277	Flange mounted switch for MCCB *(Only for US market)*

Cabling

☐	H351	Top entry	*(included with C129)*
☐	H353	Top exit	*(included with C129)*
☐	H350	Bottom entry	*(only with C129)*
☐	H352	Bottom exit	*(only with C129)*
☐	H356	DC cable connection busbars (*not with D150 , not for R10 and R11)*	
☐	H358	Cable conduit entry (US & UK version)	*(Included with C129 or C134)*

ACS880-07 Type Code Sheet — 45 - 630 kW, Cabinet-built

Cabinet options

☐	G300	Cabinet heater (External supply)	*(Not available with C134)*
☐	G301	Cabinet lighting	
☐	G313	Output for Motor heater (External supply)	
☐	G307	Terminals for External Control Voltage 230VAC or 115VAC (UPS)	
☐	G330	Halogen free wiring and materials	*(Not available with C129 or C134)*
☐	G340	Wire marking class A3	
☐	G342	Wire marking class C1	
☐	G327	Ready Pilot light, white	
☐	G328	Run Pilot light, green	
☐	G329	Fault Pilot light, red	
☐	G334	V-meter with selector switch	
☐	G335	A-meter in one phase	

***Class A3**, equipment and terminal block pin numbers marked with snap on markers*
***Class C1**, equipment and terminal block pin numbers, equipment Ids and also remote address marked by printed sleeves*

Full set of printed manuals and documentation language

☐	R700	English	
☐	R701	German	*Delivered set may include manuals in English*
☐	R702	Italian	*Delivered set may include manuals in English*
☐	R703	Dutch	*Delivered set may include manuals in English*
☐	R704	Danish	*Delivered set may include manuals in English*
☐	R705	Swedish	*Delivered set may include manuals in English*
☐	R706	Finnish	*Delivered set may include manuals in English*
☐	R707	French	*Delivered set may include manuals in English*
☐	R708	Spanish	*Delivered set may include manuals in English*
☐	R709	Portuguese (in Portugal)	*Delivered set may include manuals in English*
☐	R711	Russian	*Delivered set may include manuals in English*

Starter for auxiliary Motor fan

☐	M600	1...1,6 A	(1 pc)	
☐	M601	1,6...2,5 A	(1 pc)	
☐	M602	2,5...4 A	(1 pc)	
☐	M603	4...6,3 A	(1 pc)	
☐	M604	6,3...10 A	(1 pc)	*(Only for R8 - R11)*
☐	M605	10...16 A	(1 pc)	*(Only for R8 - R11)*

Safety features

☐	Q950	Prevention of unexpected start up with FSO, *requires FSO Q972*
☐	Q957	Prevention of unexpected start up with safety relay
☐	Q951	Emergency Stop, Category 0 with opening main contactor/breaker
☐	Q952	Emergency Stop, Category 1 with opening main contactor/breaker *(requires FIO-01 L501)*
☐	Q963	Emergency Stop, Category 0 without opening main contactor with safety relay
☐	Q964	SS1, Emergency Stop, Category 1 without opening main contactor/breaker with safety relay
☐	Q978	Emergency Stop with main contactor/breaker, configurable category 0 or 1, requires FSO Q973
☐	Q979	Emergency Stop with STO, configurable category 0 or 1, requires FSO Q973
☐	Q954	Earth Fault Monitoring, Unearthed Mains
☐	Q971	ATEX certified Safe Disconnection Function, EX II (2) GD
☐	Q973	Safety function module FSO-12 *(Not with Q957, Q951,Q952,Q963 and Q964)*

Maximum ambient temperature is

Specialities

☐	P902	Customised (Described in Technical appendix)
☐	P904	Extended warranty
☐	P913	Special colour (Described in Technical appendix)
☐	P912	Seaworthy Packing
☐	P929	Container Packing

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