Canadian Pricebook

ABB Low Voltage Drives
Industrial Drives
ACS800

Power and productivity
for a better world™

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What's new in this pricebook revision ?

1.ACS800 Frame R4 Drives at 690V and ACS800-11/31 will be transferred to new discount schedule DS-AR4

Trademarks

DriveWindow® is a registered trademark of ABB
ModBus® is a trademark of Schneider Electric
ProfiBus® is a trademark of Siemens
ControlNet® is a trademark of ControlNet International, Ltd.
DeviceNet® is a trademark of the Open DeviceNet Vendor Association.
Windows® is a registered trademark of Microsoft Corp.

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Effective: March 8 2016

Supersedes :
Publication: ACS800-CAD-01 Rev B
Effective: June 1 2013

Table of Contents

Symbols used

U_1 = Input Voltage
U_N = Nominal Motor Voltage
f_N = Nominal Motor Frequency
I_{2N} = Nominal Current – Normal Duty
I_{Max} = Maximum Current for Peak Overload
S_N = Power - Normal Duty (kVA)
P_N = Power - Normal Duty (kW)
P_N = Power - Normal Duty (HP)
I_{2hd} = Nominal Current – Heavy-Duty
S_{Nhd} = Power (kVA) – Heavy-Duty
P_{Nhd} = Power (kW) – Heavy-Duty
P_{Nhd} = Power (HP) – Heavy-Duty

Overview

The ACS800 is an adjustable frequency AC drive that achieves the ultimate in AC motor control performance. The second generation of AC drives to utilize ABB's Direct Torque Control (DTC) motor control algorithm, the ACS800 performs accurate speed and torque control without the use of a pulse encoder or other speed measurement device on standard squirrel cage induction AC motors.

With drives ranging from 0.75 to 3000Hp (0.55 to 2700kW), the ACS800 AC Drive features a multi-lingual alphanumeric control panel that also provides an intelligent start-up assistant. The assistant greatly simplifies drive set-up, operation, and fault diagnostics. The control panel can be mounted on the cover of the drive or remotely and has capabilities to upload and download drive configuration parameters.

The ACS800 can be used for the simplest to the most complex applications without complicated configuration changes. Three integral option slots support additional analog and digital I/O, encoder feedback, and various field bus communication option modules. An integral brake chopper is standard in all R2 and R3 frame drives and is available as an option in frames R4 through R8.

The ACS800 is available in both "Normal Duty" ratings and "Heavy Duty" ratings. The Normal Duty rating provides a 10% short term overload rating for 1 minute of every 5 minutes. The Heavy Duty rating provides a 50% short term overload rating for 1 minute of every 5 minutes. With DTC control, both ratings allow the motor to develop consistent high starting torque and are considered Constant Torque ratings from zero to base speed.

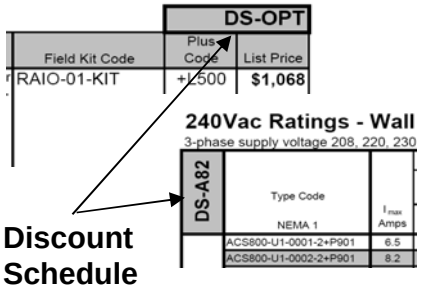
The ACS800 comes equipped with fifteen programmable blocks that can be assigned to any one of twenty functions. Linking these blocks to the drive's signals, parameters and control functions provides an extremely flexible and adaptive tool to modify the drive to fit the exact application needs. Additionally, an extensive library of preprogrammed application macros that, at the touch of a button, allow rapid configuration of inputs, outputs, and parameters for specific applications to maximize convenience and minimize start-up time.

Lead / Follower application support is included as standard. The Lead / Follower function is designed for applications in which the system is run by several ACS800 drives and the motor shafts are coupled to each other via gearing, chain, belt, etc. Using the Lead / Follower function, the load can be evenly distributed between the drives. The external control signals are connected to the Lead ACS800 only. The Lead controls the Follower(s) via a fiber optic serial communication link. This software is included in ACS800 as standard but requires the RDCO-03 and two fiber optic cables which must be purchased separately.

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. You can find your multipliers in the document "Channel Partner Discount Schedule"



The ACS800 family of AC Drives was designed to meet virtually every customer's application requirements. These Price Pages were developed to allow quick and easy selection of standard ACS800 products. This document does not contain all available configuration variants of the ACS800 product family. **For pricing on configurations that are not in this pricebook, please send your request to : *drives.rfq@ca.abb.com***

If options are ordered as Factory installed Plus codes, then drive's discount schedule will apply to options.

Application considerations

Because of the wide variety of applications for the ACS800 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
ACS800-U1	UL / cUL / CSA / CE LV Directive
ACS800-02	UL / cUL / CSA / CE LV Directive (not including option +C111)
ACS800-07	UL / cUL / CSA /CE LV Directive* (CSA with +C134 option, UL with +C129 option)
ACS800-11/U11	UL / cUL / CSA / CE LV Directive
ACS800-17	UL / cUL / CE LV Directive* (CSA with +C134 option, UL with +C129 option)
ACS800-31/U31	UL / cUL / CSA / CE LV Directive
ACS800-37	UL / cUL / CE LV Directive* (CSA with +C134 option, UL with +C129 option)

* CE LV Directive and UL are mutually exclusive.

Ordering CE product

All ACS800 AC Drives ship with CE LV Directive compliance. Most European installations below 500kW are operated from 380Vac, 50Hz, 3 phase networks. As such, CE Compliant product is shown in the 400Vac, 50Hz table. Please note that to meet CE EMC requirements for the First or Second Environment, an optional EMC filter must be applied and the European Cable Lead Through (+H357) is required.

Selecting the correct drive rating

ACS800 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. 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.
NOTE: There may be differences between current required from an ACS800 AC Drive operating on a 500Vac 50Hz line and a 460Vac 60Hz line. ABB aligned the current requirements for the 500Vac 50Hz ratings with IEC motors and 460Vac 60Hz ratings with NEMA motors. The lower level of losses associated with operating on a 60Hz network allows higher currents to be drawn.

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 : *drives.rfq@ca.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, Quebec.

[2] Drop shipment and air freight available (canadian destination only). The buyer bears all costs involved in taking the goods from the named place to the destination. ABB is responsible for import clearance in Canada if needed.

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 Features

Standard Features

UL , cUL and CSA (x7 requires option selection)
4 line by 20 Character Multilingual Alphanumeric Display
Intelligent Start-Up Assistant
Motor ID Run
Motor Control
- Direct Torque Control (DTC)
- Scalar Control

Input Fuses and Disconnect (02+C127/07)
Adaptive Programming with fifteen (15) logic controller type function blocks
Three (3) programmable Analog Inputs
Seven (7) Digital inputs, (6) Programmable & (1) dedicated Start Interlock
Two (2) programmable Analog Outputs
Three (3) Programmable Form C Relay Outputs
Adjustable filters on Analog inputs and outputs
Input Speed Signals
- Two (2) Current 0 (4) - 20 mA
- One (1) Voltage +/- 0 (2)- 10VDC
- Increase/Decrease reference Contacts
- FieldBus adapters (communication modules)

Start/Stop
- 2 wire control (dry contact closure)
- 3 wire control (momentary dry contacts)

Adjustable Current Limit
Adjustable Torque Limit
Nine (9) Supervision Functions
Electronic Reverse
Power Loss Ride-Through
DC Magnetizing Start (provides max starting torque)
DC Hold
Flux Braking
Flux Optimization
Fifteen (15) Preset Speeds
Three (3) Critical Speed Lockout Bands
Self-Tuning Speed Controller
Automatic Reset Customer Selectable
Two (2) Independently Adjustable Accel and Decel Ramps
Linear or Adjustable “S” Curve Accel/Decel Ramps
Ramp to Stop or Coast to a Stop
Maximum Frequency Programmable up to 300 Hz
Integral Programmable PID Setpoint Controller
Mathematical Functions on Analog Reference Signals
Reactor with 3% impedance - DC (R2&R3 frames) and AC (R4 frame & above)
Integral Brake Chopper (R2 & R3 frames)
Reference Trim
Programmable Brake Control
- (Not available for n*D4+n*R8i frames)

Master/Follower

Programmable Fault Functions

- AI<Min
- Panel Loss
- External Fault
- Motor Thermal Protection
- Stall
- Under load
- Motor Phase Loss
- Ground Fault
- Communications Fault
- Supervision of optional I/O

Preprogrammed Protections:
- Over current
- Short Circuit
- Over voltage (Intermediate Circuit)
- Under voltage (Intermediate Circuit)
- Input Phase Loss
- Ambient temperature
- Drive over temperature
- Internal fault
- Over frequency

Available options

I/O Options
- DDCS Communications Card RDCO-01/02/03
- Analog I/O Extension Card RAIO-01
- Digital I/O Extension Card RDIO-01
- Pulse Encoder Interface RTAC-01

Field bus Adapter Modules
- DeviceNet™
- ProfiBus-DP™
- ModBus™ Adapter
- Interbus-S
- ControlNet™
- Ethernet

Dynamic Braking Choppers
CE EMC Filters (1st and 2nd Environments)
Windows® based Adaptive Programming Tool
DriveWindow® a Start-up and Programming Tool

Application Software options

Pump/Fan Control
Extruder
Spinning
Traverse
Centrifuge / Decanter
Inline Control
Center Winder/Unwind (requires app review)
Perm Magnet Synchronous Motor (requires app review)
PCP (Progressive Cavity Pump)
Rod Pump Light

Product Specifications

Input Connection

Input Voltage (U_1)	208/220/230/240Vac 3-phase +/-10% 380/400/415/440/460/480/500Vac 3-phase +/-10% 525/575/600/690Vac 3-phase +/-10%
Input Frequency	48 to 63 Hz, maximum rate of change 17%/second
Line Imbalance	Max +/-3% of nominal phase to phase input voltage
Fundamental Power Factor (cos j)	0.98 (at nominal load)
Connection	Terminals U_1, V_1, W_1

Output Connection

Output Voltage	0 to U_1, 3-phase symmetrical, U_N at the field weakening point
Output Frequency	-300 to +300 Hz, in DTC mode (0-3.2((U1 input voltage/U_N motor)*f_N motor)) with dU/dT choke limited 120Hz
Frequency Resolution	0.01 Hz
Continuous Current	1.0 * I_{2N} (normal use) 1.0* I_{2hd} (heavy-duty use)
Short Term Overload Capacity	I_{Nmax} = 1.1 * I_{2N} (1 min / 5 minutes @ 40°C), typical I_{hdmax} = 1.5 * I_{2hd} (at least 1 min / 5 min @ 40°C)
Peak Overload Capacity	I_{max} (400 Vac and 500 Vac) (at least 10 seconds at start)
Field Weakening Point	8 to 300 Hz
Switching Frequency	3 kHz (average), DTC dynamically varies from 1 to 12kHz
Acceleration & Deceleration Time	0.00 to 1800 Sec
Efficiency	98% at nominal power level (97% with Regenerative AC Drives)
Short circuit withstand rating	65,000 AIC (UL) R2-R8
Connection	U_2, V_2, W_2

Ambient Conditions, Operation

Air Temperature	0° to 40°C (104°F), above 40°C the maximum output current is de-rated 1% for every additional 1°C (up to 50°C (122°F) maximum limit)
Relative Humidity	5 to 95%, no condensation allowed, maximum relative humidity is 60% in the presence of corrosive gasses
Contamination Levels	
IEC	60721-3-1, 60721-3-2 and 60721-3-3
Chemical Gasses	3C1 (w/o coating), 3C2 (with coating)
Solid Particles	3S2
Installation Site Altitude	0 to 1000m (3300ft) above sea level. At sites over 1000m (3300ft) above sea level, the maximum power is de-rated 1% for every additional 100m (330ft). If the installation site is higher than 2000m (6600ft) above sea level, please contact your local ABB distributor or representative for further information.
Vibration Max	1mm (0.04") 5 to 13.2 Hz, Max 7 m/s^2 (23 ft/s^2) 13.2 to 100 Hz sinusoidal

Ambient Conditions, Storage & Transportation (in Protective Shipping Package)

Air Temperature	-20° to 70°C (-4° to 158°F)
Relative Humidity	Less than 95%, no condensation allowed
Atmospheric Pressure	70 to 106 kPa (10.2 to 15.4 PSI)
Vibration Max	1mm (0.04") 5 to 13.2 Hz, Max 7 m/s^2 (23 ft/s^2) 13.2 to 100 Hz
Shock (IEC 60068-2-29)	Max 100 m/s2 (330 ft/s2) 11 ms
Free Fall	250mm for weight less than 100Kg / 100mm for weight greater than 100Kg

Cooling Information

Cooling Method	Internal Fan
Power Loss	Approximately 3% of rated power

Auxiliary Power Supply

Voltage	24 Vdc, +/- 10%
Maximum Current	250 mA
Protection	Short Circuit Protection

Control Terminal Blocks

Size 0.3 to 3 mm^2 (12 to 22 AWG) - All control terminal blocks

Product Specifications

Analog Inputs

Three (3) Programmable Differential Inputs

Two (2) Current Signals	0 (4) to 20 mA, Input Resistance R_I = 100 ohms
One (1) Voltage Signal	-10Vdc / 0(2) to +10Vdc, Input Resistance R_I = 200 k-ohms
Common Mode Voltage	+/-15 Vdc, max.
Common Mode Rejection Ratio	> 60 dB at 50 Hz
Resolution	0.025% (12 bit)
Accuracy	+/- 0.5%
Input Updating Time	6 ms (Standard Application Software)
Optional Isolation	Available through optional external module

Reference Power Supply

Voltage	+10Vdc, 0, -10Vdc +/- 0.5% at 25° C (77° F)
Maximum Load	10 mA
Applicable Potentiometer	1 k-ohm to 10 k-ohm

Analog Outputs

Two (2) Programmable Current Outputs

Signal Level	0 (4) to 20 mA
Resolution	0.025% (12 bit)
Accuracy	+/-1% Full Scale Range at 25°C (77°F)
Maximum Load Impedance	700 ohms
Output Updating Time	24 ms (Standard Application Software)

Digital Inputs

Six (6) Programmable Digital Inputs (Common Ground), plus One (1) Start Interlock

Isolation	Isolated, can be divided in two isolated groups
Isolation Test Voltage	500 VAC, 1 minute
Signal Level	24Vdc, -15% to +20%
Logical switch thresholds	< 8Vdc at “0”, >12Vdc at “1”
Input Current	10 mA, Digital Input 1 to Digital Input 5, 5 mA Digital Input 6
Filtering Time Constant	1 ms
Input Updating Time	6 ms (Standard Application Software)

Internal 24 Vdc Supply for Digital Inputs

Voltage	24Vdc
Maximum Current	100 mA
Connector	X22:7
Protection	Short Circuit Proof

An external 24 Vdc supply may be used instead of the internal supply

Relay Outputs

Three Programmable Relay Outputs

Switching Capacity	8 A at 24Vdc or 250Vac, 0.4 A at 120Vdc
Maximum Continuous Current	I_C = 2 Amps RMS
Contact Material	Silver Cadmium Oxide (AgCdO)
Isolation Test Voltage	4 kVac, 1 minute
Output Updating Time	100 ms (Standard Application Software)

Protections

Single Phase	Protected (input & output)
Over Voltage Trip Limit	1.3 * U_{1max}
Under Voltage Trip Limit	0.65 * U_{1min}
Over Temperature	Protected
Auxiliary Voltage	Short Circuit Protected
Ground Fault	Protected
Microprocessor Fault	Protected
Motor Stall Protection	Protected
Motor Over Temperature	Protected (I^2t)

Hardware Selection & Description

The ACS800 product family is designed to meet virtually any application and operating environment, with a complete selection of voltage, power, and enclosure ratings. Combined with highly flexible control and communications options, the ACS800 can be used in most every application imaginable. Listed below are brief descriptions of the package designs found in this document.

ACS800-U1-xxxx-x

The ACS800-U1 is a wall-mountable drive available from 0.75 to 75Hp @ 240Vac, 1 to 200Hp @ 480Vac, and 7.5 to 200Hp @ 600Vac. The ACS800-U1 has five different frame sizes (R2 to R6). The ACS800-U1 is available in a standard NEMA 1 or optional NEMA 12 enclosure and a control panel for user interface provided as standard. The front section of the ACS800-U1 contains the electronics, power and control wire terminals. The rear section forms a cooling channel. The two section construction allows the unit to be installed protruding through a wall of a customer supplied enclosure, placing the rear section in a cooling air duct to minimize the heat inside the cabinet. In standard installations, the converter is mounted directly onto a wall. The upward cooling air flow is provided by a fan or fans built into the bottom of each drive. The R2 and R3 frames (and R4 Frame at 690V) have built in braking choppers. When ordering the optional brake chopper for sizes R4-R6, it mounts internally to the base unit and adds no additional size to the product. (factory installed only)

ACS800-02-xxxx-x

The ACS800-02 is available from 150 to 600Hp @ 480Vac and 600Vac. It is designed to be a free standing floor mounted enclosure. It is available in a standard NEMA 1 enclosure only. A control panel for user interface is mounted on the front of the drive enclosure. Cooling air intake and exhaust vents are covered with grates to keep out unwanted objects. Input power and motor leads enter and exit through the bottom. When ordering the optional brake chopper, it is internally mounted and adds no additional size to the unit.

NOTE: The DC Bus connections are not available on the ACS800-02 drives when the internal braking chopper option is not selected.

ACS800-04-xxxx-x (R2-R6 frames)

The ACS800-04 is a drive module available from 0.75 to 75Hp @ 240Vac, 1 to 200Hp @ 480Vac, and 7.5 to 200Hp @ 600Vac. The ACS800-04 has five different frame sizes (R2 to R6). The drive module is available only in a IP20 enclosure and requires installation in a cabinet or enclosure. The front section of the module contains the electronics, power and control wire terminals. The rear (power) section forms a cooling channel. This cooling channel is rated IP55 (NEMA 12). This two section construction allows the unit to be installed protruding through the wall of a customer supplied enclosure, placing the rear section outside the enclosure. By placing the power section outside the enclosure most of the heat loss is outside the enclosure. This product offering includes the new optional of Flange mounting kit for these drives in all frames from R2 through R6 at 200Hp.
The R2 and R3 frames (R4 690V also) have built in braking choppers. When ordering the optional brake chopper for sizes R4-R6, it mounts internally to the base unit and adds no additional size to the product (factory installed only). **A keypad and mounting panel are not supplied with the drive module. These must be ordered separately.**

ACS800-04-xxxx-x (R7 & R8 frames)

The ACS800-04 is a drive module available from 60 to 250Hp @ 240Vac, 125 to 600Hp @ 480Vac, and 100 to 600 Hp @ 600Vac. It is designed for installation inside an enclosure, as it is only available in an open chassis configuration (IP00). The motor control and interface board is provided separately in a mountable enclosure (RDCU), which is connected to the drive module using the supplied fiber optic cables and 24Vdc power supply connections. The 24Vdc power is supplied from the drive module. The included cables are 3 meters in length, with 2 meters available for external use between the drive and the RDCU. **A keypad and mounting panel are not supplied with the drive module. These must be ordered separately.** When ordering the optional brake chopper, it is internally mounted and adds no additional size to the module. The AC line incoming connections are at the top of the module. The motor cable vertical busbars are included as standard. The DC bus output are located on the left side of the module (vertical busbars not included).

ACS800-04M-xxxx-x (R7 & R8 frames)

The ACS800-04M is a drive module available from 60 to 250Hp @ 240Vac, 125 to 600Hp @ 480Vac, and 100 to 600 Hp @ 600Vac. It is designed for installation inside an enclosure, as it is only available in an open chassis configuration (IP00). The motor control and interface board is provided separately in a mountable enclosure (RDCU), which is connected to the drive module using the supplied fiber optic cables and 24Vdc power supply connections. The 24Vdc power is supplied from the drive module. The included cables are 3 meters in length, with 2 meters available for external use between the drive and the RDCU. **A keypad and mounting panel are not supplied with the drive module. These must be ordered separately.** When ordering the optional brake chopper, it is internally mounted and adds no additional size to the module. The AC line incoming connections are at the top of the module. Pedestal and output busbars (AC & DC) are optionnal.

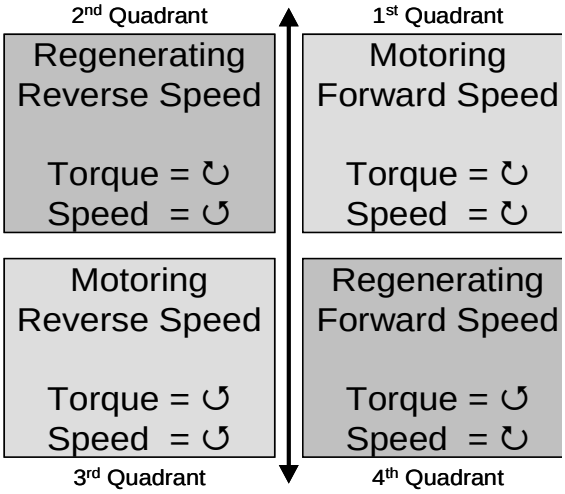
ACS800-07-xxxx-x (Frame R6 to R8)

The ACS800-07 is available from 75 to 600Hp @ 480Vac and 50 to 600Hp @ 600Vac. It is available in a standard NEMA 1, optional filtered NEMA 1, or NEMA 12 filtered and ventilated enclosure. Drives are provided with a through the door interlocked, fused disconnect switch (lockable in the off position), and a control panel. A US conduit plate is provided as standard along with bottom entry input power and bottom exit motor leads. Top entry and exit are optional. When ordering the optional brake chopper, it is internally mounted and adds no additional size to the unit.

Hardware Selection & Description

Regenerative AC drives

A regenerative AC drive (also known as four quadrant) is a drive with the ability to return energy (power) back to the supply line. The ACS800-U11 and ACS800-17 has line side IGBT supply makes this possible and an active filter that keeps the supply a clean sinusoidal wave form. Conventional non-regenerative AC drives have a passive diode supply that cannot return energy to the supply line. The ability to return energy to the supply line allows you to save energy by regenerating the load energy to the line instead of to a braking chopper and external resistor. This eliminates the need for braking chopper, resistor hardware, and extra wiring for most regenerative applications.



ACS800-U11-xxxx-x

The ACS800-U11 is a 4 quadrant regenerative wall-mountable drive available from 7.5 to 60Hp @ 240Vac, 15 to 125Hp @ 480Vac, and 40 to 75Hp @ 600Vac. The ACS800-U11 is available in a NEMA 1 enclosure only and is provided with a control panel for user interface and parameter adjustment. Parameter adjustment for the rectifier section and inverter section are controlled from the same control panel. The ACS800-U11 is a complete regenerative AC drive package requiring no user external interconnections or additional components. Regenerative drives offer very low harmonics and the ability to regenerate energy from overhauling loads back to the line source rather than dissipating it as heat energy in resistors.

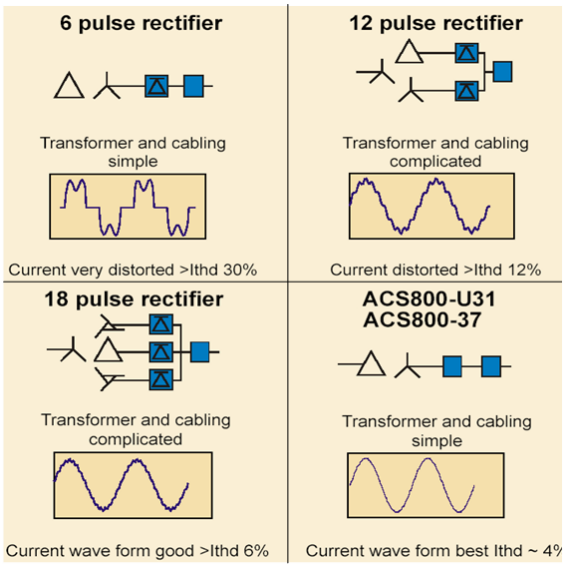
ACS800-17-xxxx-x

The ACS800-17 is a regenerative AC drive available from 60 to 2050Hp @ 480Vac and 40 to 2600Hp @ 600Vac, designed as a free-standing floor mounted enclosure. Regenerative drives offer very low harmonics and the ability to regenerate energy from overhauling loads back to the line source rather than dissipating it as heat energy in resistors. The ACS800-17 is available in a NEMA 1 enclosure, optional NEMA 1 filtered or NEMA 12 filtered and ventilated enclosure. The drive is provided with a through the door interlock, fusible disconnect switch (lockable in the off position) in frame 2xR8i and greater with an Air Circuit Breaker, a main contactor, and LCL AC filter. A control panel for user interface, parameter adjustment, and drive operation is mounted on the front of the drive enclosure. A US conduit plate and 2nd environment filter are provided standard.

Hardware Selection & Description

Low Harmonic AC drives

The ACS800-U31 and ACS800-37 provide advanced harmonic mitigation technology that does not require external filters or multi-pulse transformer. These drives utilize an active front end rectifier with a LCL (Inductor, Capacitor, Inductor) filter. The LCL filter reduces high frequency (above 1kHz) harmonics and the active front end reduces lower frequency harmonics. The total harmonic current distortion is approximately 4% of the nominal inverter current rating at full load for the ACS800-U31 and -37. The Ultra Low Harmonic drives provide this exceptional harmonic mitigation with 3% input line imbalance, where other methods of harmonic mitigation depend on a balanced input line to meet their specified level of harmonic distortion.



ACS800-U31-xxxx-x

The ACS800-U31 is a wall mounted drive that provides a unique low harmonic solution that is incorporated in the drive. The ACS800-U31 is available from 7.5 to 60Hp @ 240Vac, 15 to 125Hp @ 480Vac, and 40 to 75Hp @ 600Vac. The drive is available in a NEMA 1 enclosure only and is provided with a control panel for user interface and parameter adjustment. The ACS800-U31 has exceptionally low line harmonic content and fulfills IEEE519-1992 harmonic requirements at the drive input terminals without external filtering devices or multi-pulse transformer.

ACS800-37-xxxx-x

The ACS800-37 cabinet built drive provides a unique low harmonic solution that is incorporated in the drive. The ACS800-37 is available from 60 to 2050Hp @ 480Vac and 40 to 2800Hp @ 600Vac. This drive has exceptionally low line harmonic content and fulfills IEEE519-1992 harmonic requirements at the drive input terminals without external filtering devices or multi-pulse transformer. The ACS800-37 comes standard as a NEMA 1 enclosure with optional NEMA 1 filtered or NEMA 12 filtered and ventilated. The drive is provided with a through the door interlock, fusible disconnect switch (lockable in the off position) in frame 2xR8i and greater with an Air Circuit Breaker, a main contactor, and LCL AC filter. A control panel for user interface, parameter adjustment, and drive operation is mounted on the front of the drive enclosure. A US conduit plate is provided standard.

Definition of NEMA and IEC environmental ratings

NEMA and IEC environmental ratings can be confusing at times. Below is a summary of the rating definitions and recommendations for application of each type supported by the ACS800 AC Drive product family.
These definitions are taken directly from NEMA and IEC documentation. The recommendations are provided based on NEMA rated installations and not the IEC IP ratings.

NEMA 1, UL type 1

Indoor use primarily to provide a degree of protection against limited amounts of falling dirt.

IP 2 1

- (2) Protected against solid foreign objects of 12.5mm diameter and greater
- (1) Protected against vertically falling water drops

Recommendation for NEMA rating

Installation in clean environment such as an electrical room or in another enclosure with higher degree of protection. NEMA 1 rated is typically not the best selection for installation on industrial factory floors.

NEMA 1, UL type 1 (Filtered)

Indoor use primarily to provide a degree of protection against limited amounts of falling dirt. A 1mm particle filter is added to the NEMA 1 enclosure rating to protect against some dust.

IP 4 2

- (4) Protected against solid foreign objects of 1.0mm diameter and greater
- (2) Protected against vertically falling water drops when enclosure tilted up to 15deg

Recommendation for NEMA rating

Installation in clean environment with minimal degree of dust or contaminant particles. Typically acceptable for installation in clean factory floors with limited dust exposure.
Regular preventative maintenance for filter changing or cleaning. Inspect drive for dust or particle build up that may limit cooling in the future, clean as needed.

NEMA 12, UL type 12 (Filtered & Ventilated)

Indoor use primarily to provide a degree of protection against circulating dust, falling dirt, and dripping non-corrosive liquids

IP 5 4

- (5) Ingress of dust is not totally prevented, but dust shall not penetrate in a quantity to interfere with satisfactory operation of the apparatus or to impair safety
- (4) Water splashed against the enclosure from any direction shall have no harmful effects

IP 5 5

- (5) Ingress of dust is not totally prevented, but dust shall not penetrate in a quantity to interfere with satisfactory operation of the apparatus or to impair safety
- (5) Water projected in jets against the enclosure from any direction shall have no harmful effects

Recommendation for NEMA rating

Installation in environments with moderate to significant dust and contaminant particles. Acceptable for most applications on factory floors where dust is present but spraying liquids are not.
Regular preventative maintenance for filter changing or cleaning. Inspect drive for dust or particle build up that may limit cooling in the future, clean as needed.

Basic Type Code Information

ACS800 — Product Series

-U1 — Construction
- U1 = Wall Mounted
- 02 = Floor Standing Drive
- 07 = Cabinet Drive
- U11 = Wall Mounted (Regenerative)
- 17 = Cabinet Drive (Regenerative)
- U31 = Wall Mounted (Ultra Low Harmonic)
- 37 = Cabinet Drive (Ultra Low Harmonic)

-0025 — KVA Rating

-7 — Voltage
- 2 = 208, 220, 230, **240**Vac
- 3 = 380, 400, 415Vac
- 5 = 380, 400, 415, 440, 460, **480**, 500Vac
- 7 = 525, 550, 575, **600**, 690Vac

+L500 — Options
See Options List

Ordering Information
To order an ACS800 drive, select the appropriate type code from the following pages for your input voltage, motor current, and drive construction desired. This then represents the basic drive product. To add options, simply add a [+] to the end of the type code followed by the plus code of the desired option.

Adding a number in front of the option indicates the quantity of that option for the drive. A zero is used to delete a standard option. E.g. 2L501 means two (2) RDIO-01 modules.

Example: ACS800-U1-0030-5+D150+L501+K462+P901 means add Brake Chopper, RDIO-01, and ControlNet fieldbu
+D150 = Brake Chopper, +L501 = RDIO-01, +K462 = ControlNet fieldbus
NOTE: When adding Plus Codes to an order, please provide them in Alphanumeric order.

Documentation

Standard Documentation Included with Standard ACS800 Drives
Standard drives include the ACS800-U1/02/07/U11/17/U31/37 products. Standard documentation (provided in English only) includes the Firmware manual and the product specific Hardware manual. Documentation is shipped with the drive product. For cabinet type product (07/17/37), basic as-built drawings (basic electrical diagrams) are also included in the cabinet product shipment. As-built drawings are not available for non-cabinet type standard drive products.

Plus Code definitions

+ Code	Short Description	Description
+B054	NEMA 1 - Filtered UL Type 1 (IP42)	Same as NEMA 1 but adds a dust filter. See definition of NEMA and IEC (page 18)
+B055	UL Type 12 (IP54)	Filtered and ventilated protection against dust. See definition of NEMA and IEC (page 18)
+B056	UL Type 12 (IP55)	Filtered and ventilated protection against dust. See definition of NEMA and IEC (page 18)
+C129	UL Approval for -07 type	Required plus code for ACS800-07 for UL approval. Adds 115Vac aux ctrl, US conduit plate, Load Switch, Fuses, Top Entry&Exit.
+C134	CSA Approval for -07 type	Optional plus code for ACS800-07 product for CSA approval. This option adds 115Vac aux control voltage & US conduit plate. Bottom Entry/Exit as standard.
+D150	Brake Chopper	Adds internal brake chopper for faster decel time (factory installed only). Motor energy is dissipated to separate resistor bank. Resistors sold separately.
+E200	EMC/RFI 2nd Envir	2nd Environment EMC Filter internal to the drive, provides for Industrial app. RFI noise suppression. The E200 is for an **unrestricted grounded** network and is available for R2-R6. CE compliance is dependant on the system & installation.
+E202	EMC/RFI 1st Envir	1st Environment EMC Filter provides for Commercial app. RFI noise suppression. The E202 is for a **restricted grounded** network and is available for R2-R8 drives. CE compliance is dependant on the system & installation.
+E205	dU/dT Choke	dU/dT motor protecting output filters are designed to limit peak voltage and increase voltage rise time.
+E208	Common Mode Filt	Common Mode filters for control of radiated & conducted emission on output of AC Drives. Available option for R7 and standard for R8. Factory installed only.
+E210	EMC/RFI 2nd Envir	2nd Environment EMC Filter internal to the drive, provides for Industrial app. RFI noise suppression. E210 is for an **unrestricted grounded/ungrounded** network and is available for R7-R8 drives. Does not provide CE compliance.
+F250 +Q951	Line Contactor & E-Stop Cat 0	Input power contactor including an E-Stop pushbutton mounted on enclosure door.
+F250 +Q952	Line Contactor & E-Stop Cat 1	Input power contactor including an E-Stop pushbutton mounted on enclosure door.
+H351 +H353	Top Entry Top Exit	Changes the cable entry & exit from bottom to Top for 07/17/37
+H350	Bottom Entry	Sets cable entry to bottom for 07/17/37 drive products
+H352	Bottom Exit	Sets cable exit to bottom for 07/17/37 drive products
+H351	Top Entry	Sets the cable entry to top for ACS800-07 drive products
+H353	Top Exit	Sets the cable exit to top for ACS800-07drive products.
+H357	European Cable Lead Through	Provides European type entry plate with clamping mechanism for grounding shielded power cables. Must be used in support of meeting CE EMC installation.
+H358	US Conduit Plate	Selects US conduit plate for cable entry and exit
+P901	Coated Boards	Provides printed circuit boards in the drive product with a protective layer of epoxy coating designed to minimize corrosion from hazardous environments.
+Q967	Safe Torque Off	For U1/04 drives this option provides connection to the control circuit via the ASTO option board, but does not include the required safety relay (customer supplied). For 07/17/37 drives this option provides a complete solution only requiring the customer supplied control input.

See page 52, ***Complete product Typecodes*** for other available options.

Notes for product selection

General Notes

- I_{2N}: continuous base current at 40°C (104°F). Overload cycle 110% I_{2N} for 1 minute / 5 minutes allowed.
- I_{2hd}: continuous base current at 40°C (104°F). Overload cycle 150% I_{2hd} for 1 minute / 5 minutes allowed.
- $I_{cont\ max}$: continuous base current at 40°C (104°F). No overload allowed.
- I_{max} current available for 10 seconds at start.
- Current ratings do not change with different supply voltages.
- The rated current of the ACS800 must be greater than or equal to the rated motor current to achieve the rated motor power given in the table.
- Horsepower ratings are based on NEMA motor ratings for typical 4-pole motors (1800 rpm). Check motor nameplate current for compatibility.
- Kilowatt ratings are based on IEC motor ratings for typical 4-pole motors (1500 rpm). Check motor nameplate current for compatibility.
- All ACS800-U1 models come with a US conduit box (conduit plate in NEMA 12) as standard.
- ACS800-07 (400v) product has special requirements when ordering some options
  For the US Conduit Plate, plus code +H358 is required. This is not included as standard.

Specific Notes

(1) Overload may be limited to 5% at higher motor speeds (speed >90% motor base speed) by the internal power limit of the drive.

(2) Overload may be limited to 40% at higher motor speeds (speed >90% motor base speed) by the internal power limit of the drive.

(3) A higher rating may be available for some 4-pole 460V/575 high efficiency NEMA motors.

(4) Current rating available when ambient temp is 30°C or less, See the Hardware Manual for current rating at 40°C.

(5) 50% overload is allowed if ambient temperature is 30°C or less, Overload is limited to 40% at 40°C.

(6) The higher rating is available when output frequency is above 41 Hz.

(7) With dU/dT choke the maximum output frequency is limited to 120Hz.
Frame R7i Cabinets require (+H359) common motor terminal cubicle for du/dt filter installation.

(8) Top Entry/Exit included in C129, Bottom Entry/Exit included in C134

(9) N/A

(10) Higher value available without overload

(11) Rating not applicable for all motor. Available for some 4 pole high efficiency NEMA motors.

(12) Check compatibility or requirements in the Optimal Type code sheet starting on page 52

NA: Not available

CF: Consult ABB / pricing on special request
STD: Included as standard, do not add plus code
INCL: Included, plus code already in the part number

240Vac Ratings - Wall Mounted Drives

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

DS-A82	Type Code NEMA 1	I_{max} Amps	Nominal Ratings: Normal Duty (CT) (110% I_{2N}) I_{2N} Amps	Normal Duty (CT) P_N Hp	HeavyDuty (CT) (150% I_{2HD}) I_{2HD} Amps	HeavyDuty (CT) P_{HD} Hp	Frame Size	NEMA 1 List Price	UL type12 (IP55) +B056	Brake Chopper +D150
Wall Mounted Drives	ACS800-U1-0001-2+P901	6.5	4.7	1	3.5	0.75	R2	**$2,008**	$510	STD
	ACS800-U1-0002-2+P901	8.2	6.6	1.5	4.6	1	R2	**$2,054**	$510	STD
	ACS800-U1-0003-2+P901	10.8	8.1	2	6.6	1.5	R2	**$2,088**	$510	STD
	ACS800-U1-0004-2+P901	13.8	11	3	7.5	2	R2	**$2,200**	$510	STD
	ACS800-U1-0006-2+P901	24	21	5	13	3	R3	**$2,335**	$685	STD
	ACS800-U1-0009-2+P901	32	27	7.5	17	5	R3	**$2,625**	$685	STD
	ACS800-U1-0011-2+P901	46	34	10	25	7.5	R3	**$2,974**	$685	STD
	ACS800-U1-0016-2+P901	62	42	15	31	10	R4	**$3,688**	$905	$875
	ACS800-U1-0020-2+P901	72	54	20(1)	42	15(2)	R4	**$4,733**	$905	$875
	ACS800-U1-0025-2+P901	86	69	25	54	20(2)	R5	**$6,030**	$1,032	$995
	ACS800-U1-0030-2+P901	112	80	30	68	25(2)	R5	**$7,292**	$1,032	$995
	ACS800-U1-0040-2+P901	138	104	40(1)	80	30(2)	R5	**$8,323**	$1,032	$995
	ACS800-U1-0050-2+P901	164	132	50	104	40	R6	**$10,700**	$1,750	$1,641
	ACS800-U1-0060-2+P901	202	157	60	130	50(2)	R6	**$11,779**	$1,750	$1,641
	ACS800-U1-0070-2+P901	282	192	75	154	60(2)	R6	**$12,980**	$1,750	$1,641

General and specifically identified notes are on page 21

400Vac Ratings - Wall Mounted Drives - 380V/415V Voltage class

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

DS-A84	Type Code NEMA 1	I_{max} Amps	Nominal Ratings: Normal Duty (CT) (110% I_{2N}) I_{2N} Amps	Normal Duty (CT) P_N kW	HeavyDuty (CT) (150% I_{2HD}) I_{2HD} Amps	HeavyDuty (CT) P_{HD} kW	Frame Size	IP21 List Price	UL type12 (IP55) +B056	Brake Chopper +D150
Wall Mounted Drives	ACS800-01-0003-3	6.5	4.7	1.5	3.4	1.1	R2	**$2,289**	$510	STD
	ACS800-01-0004-3	8.2	5.9	2.2	4.3	1.5	R2	**$2,380**	$510	STD
	ACS800-01-0005-3	10.8	7.7	3	5.7	2.2	R2	**$2,581**	$510	STD
	ACS800-01-0006-3	13.8	10.2	4	7.5	3	R2	**$2,926**	$510	STD
	ACS800-01-0009-3	17.6	12.7	5.5	9.3	4	R2	**$3,720**	$510	STD
	ACS800-01-0011-3	24	18	7.5	14	5.5	R3	**$4,332**	$685	STD
	ACS800-01-0016-3	32	24	11	19	7.5	R3	**$4,919**	$685	STD
	ACS800-01-0020-3	46	31	15	23	11	R3	**$5,546**	$685	STD
	ACS800-01-0025-3	62	41	18.5	32	15	R4	**$8,399**	$905	$875
	ACS800-01-0030-3	72	50	22	37	18.5	R4	**$9,404**	$905	$875
	ACS800-01-0040-3	86	69	30	49	22	R5	**$10,200**	$1,032	$995
	ACS800-01-0050-3	112	80	37	60	30	R5	**$13,679**	$1,032	$995
	ACS800-01-0060-3	138	94	45	69	37	R5	**$15,204**	$1,032	$995
	ACS800-01-0075-3	170	141	75	100	45	R5	**$18,839**	$1,032	$995
	ACS800-01-0100-3	202	155	75	115	55	R6	**$19,919**	$1,750	1,640
	ACS800-01-0120-3	282	184	90	141	75	R6	**$23,098**	$1,750	1,640
	ACS800-01-0135-3	326	220	110	163	90	R6	**$25,453**	$1,750	1,640
	ACS800-01-0165-3	326	254	132	215	110	R6	**$28,478**	$1,750	1,640
	ACS800-01-0205-3	351	285	160	234	132	R6	**$33,433**	$1,750	1,640

General and specifically identified notes are on page 21

240Vac Ratings - Wall Mounted Drives

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

EMC/RFI Filter 2nd Envir	EMC/RFI Filter 1st Envir	EMC/RFI Filter 2nd Envir	US Gland Plate	Coated Boards	Safe Torque Off
+E200	**+E202**	**+E210**	**+H358**	**+P901**	**+Q967**
$210	$329	NA	STD	INCL	$830
$210	$329	NA	STD	INCL	$830
$210	$329	NA	STD	INCL	$830
$210	$329	NA	STD	INCL	$830
$210	$329	NA	STD	INCL	$830
$210	$329	NA	STD	INCL	$830
$210	$329	NA	STD	INCL	$830
$266	$413	NA	STD	INCL	$830
$266	$413	NA	STD	INCL	$830
$532	$825	NA	STD	INCL	$830
$532	$825	NA	STD	INCL	$830
$532	$825	NA	STD	INCL	$830
NA	$1,917	$ 1,253	STD	INCL	$830
NA	$1,917	$ 1,253	STD	INCL	$830
NA	$1,917	$ 1,253	STD	INCL	$830

400Vac Ratings - Wall Mounted Drives - 380V/415V Voltage class

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

EMC/RFI Filter 2nd Envir	EMC/RFI Filter 1st Envir	EMC/RFI Filter 2nd Envir	European Cable lead through	Coated Boards	Safe Torque Off
+E200	**+E202**	**+E210**	**+H357**	**+P901**	**+Q967**
$210	$329	NA	STD	$553	$830
$210	$329	NA	STD	$553	$830
$210	$329	NA	STD	$553	$830
$210	$329	NA	STD	$553	$830
$210	$329	NA	STD	$553	$830
$210	$329	NA	STD	$553	$830
$210	$329	NA	STD	$553	$830
$210	$329	NA	STD	$553	$830
$266	$413	NA	STD	$553	$830
$266	$413	NA	STD	$553	$830
$532	$825	NA	STD	$553	$830
$532	$825	NA	STD	$553	$830
$532	$825	NA	STD	$553	$830
$532	$825	NA	STD	$553	$830
NA	$1,917	$ 1,253	STD	$916	$830
NA	$1,917	$ 1,253	STD	$916	$830
NA	$1,917	$ 1,253	STD	$916	$830
NA	$1,917	$ 1,253	STD	$916	$830
NA	$1,917	$ 1,253	STD	$916	$830

400Vac Ratings - Wall Mounted and Floor Mounted Drives

3-phase supply voltage 380V to 500V. The power ratings are valid at nominal voltage **400Vac 50Hz**

DS-A84	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	Frame Size	NEMA 1 List Price	UL type12 (IP55) +B056	Brake Chopper +D150
Wall Mounted Drives	ACS800-U1-0004-5+P901	6.5	4.5	1.5	3.4	1.1	R2	**$2,618**	$510	STD
	ACS800-U1-0005-5+P901	8.2	5.6	2.2	4.2	1.5	R2	**$2,716**	$510	STD
	ACS800-U1-0006-5+P901	10.8	7.7	3	5.6	2.2	R2	**$2,832**	$510	STD
	ACS800-U1-0009-5+P901	13.8	10	4	7.5	3	R2	**$2,936**	$510	STD
	ACS800-U1-0011-5+P901	17.6	12	5.5	9.2	4	R2	**$3,402**	$510	STD
	ACS800-U1-0016-5+P901	24	18	7.5	13	5.5	R3	**$3,996**	$685	STD
	ACS800-U1-0020-5+P901	32	23	11	18	7.5	R3	**$4,571**	$685	STD
	ACS800-U1-0025-5+P901	46	31	15	23	11	R3	**$5,275**	$685	STD
	ACS800-U1-0030-5+P901	62	39	18.5	32	15	R4	**$7,420**	$905	$875
	ACS800-U1-0040-5+P901	72	44	22	36	18.5	R4	**$8,616**	$905	$875
	ACS800-U1-0050-5+P901	86	61	30	50	22	R5	**$9,565**	$1,032	$995
	ACS800-U1-0060-5+P901	112	75	37	60	30	R5	**$12,823**	$1,032	$995
	ACS800-U1-0070-5+P901	138	88	45	69	37	R5	**$14,280**	$1,032	$995
	ACS800-U1-0100-5+P901	164	115	55	88	45	R6	**$16,773**	$1,750	$1,640
	ACS800-U1-0120-5+P901	202	145	75	113	55	R6	**$19,208**	$1,750	$1,640
	ACS800-U1-0140-5+P901	282	163	90	141	75	R6	**$21,227**	$1,750	$1,640
	ACS800-U1-0205-5+P901	326	254	160	215	132	R6	**$25,435**	$1,750	$1,640
	ACS800-**01**-0255-5+H358	351	285	-	234	-	R6	**$29,555**	$1,750	$1,640
Free Standing Drives	ACS800-02-0170-5+H358	326	192	90	162	90	R7	**$25,830**	NA	$2,100
	ACS800-02-0210-5+H358	384	240	132	192	90	R7	**$30,730**	NA	$2,100
	ACS800-02-0260-5+H358	432	284	160	224	110	R7	**$36,330**	NA	$2,100
	ACS800-02-0320-5+H358	588	435	200	340	160	R8	**$37,080**	NA	$4,760
	ACS800-02-0400-5+H358	588	510	250	370	200	R8	**$52,180**	NA	$4,760
	ACS800-02-0440-5+H358	840	545	315	490	250	R8	**$61,130**	NA	$5,880
	ACS800-02-0490-5+H358	840	590	315	515(5)	250	R8	**$71,434**	NA	$5,880
	ACS800-02-0550-5+H358	1017	670	355	590(5)	315	R8	**$78,525**	NA	$5,880
	ACS800-02-0610-5+H358	1017	704	400	632(5)	355	R8	**$90,480**	NA	$5,880

General and specifically identified notes are on page 21

400Vac Ratings - Wall Mounted and Floor Mounted Drives

3-phase supply voltage 380V to 500V. The power ratings are valid at nominal voltage **400Vac 50Hz**

EMC/RFI Filter 2nd Envir	EMC/RFI Filter 1st Envir	Common Mode Filter	EMC/RFI Filter 2nd Envir	Btm Entry Btm Exit	US Gland Plate	European Cable lead through	Coated Boards	Safe Torque Off
+E200	**+E202**	**+E208**	**+E210**	**+H350 +H352**	**+H358**	**(-H358)**	**+P901**	**+Q967**
$210	$329	NA	NA	NA	STD	CF	INCL	$830
$210	$329	NA	NA	NA	STD	CF	INCL	$830
$210	$329	NA	NA	NA	STD	CF	INCL	$830
$210	$329	NA	NA	NA	STD	CF	INCL	$830
$210	$329	NA	NA	NA	STD	CF	INCL	$830
$210	$329	NA	NA	NA	STD	CF	INCL	$830
$210	$329	NA	NA	NA	STD	CF	INCL	$830
$210	$329	NA	NA	NA	STD	CF	INCL	$830
$210	$329	NA	NA	NA	STD	CF	INCL	$830
$266	$413	NA	NA	NA	STD	CF	INCL	$830
$266	$413	NA	NA	NA	STD	CF	INCL	$830
$532	$825	NA	NA	NA	STD	CF	INCL	$830
$532	$825	NA	NA	NA	STD	CF	INCL	$830
$532	$825	NA	NA	NA	STD	CF	INCL	$830
NA	$1,917	NA	$1,253	NA	STD	CF	INCL	$830
NA	$1,917	NA	$1,253	NA	STD	CF	INCL	$830
NA	$1,917	NA	$1,253	NA	STD	CF	INCL	$830
NA	$1,917	NA	$1,253	NA	STD	CF	INCL	$830
NA	$1,917	NA	$1,253	NA	INCL	CF	$1,025	$830
NA	CF	$1,260	$1,638	STD	INCL	(-630$)	$1,025	NA
NA	CF	$1,260	$1,638	STD	INCL	(-630$)	$1,025	NA
NA	CF	$1,260	$1,638	STD	INCL	(-630$)	$1,025	NA
NA	CF	$1,260	$2,154	STD	INCL	(-980$)	$1,025	NA
NA	CF	$1,260	$2,154	STD	INCL	(-980$)	$1,025	NA
NA	CF	$1,260	$2,154	STD	INCL	(-980$)	$1,025	NA
NA	CF	$1,260	$2,154	STD	INCL	(-980$)	$1,025	NA
NA	CF	$1,260	$2,154	STD	INCL	(-980$)	$1,025	NA
NA	CF	$1,260	$2,154	STD	INCL	(-980$)	$1,025	NA

480Vac Ratings - Wall Mounted and Floor Mounted Drives

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

DS-A84	Type Code NEMA 1	I_{max} Amps	Nominal Ratings				Frame Size	NEMA 1 List Price	UL type12 (IP55)	Brake Chopper
			Normal Duty (CT) (110% I_{2N})		HeavyDuty (CT) (150% I_{2HD})					
			I_{2N} Amps	P_N Hp	I_{2HD} Amps	P_{HD} Hp			**+B056**	**+D150**
Wall Mounted Drives	ACS800-U1-0004-5+P901	6.5	4.9	3	3.4	2	R2	**$2,618**	$510	STD
	ACS800-U1-0005-5+P901	8.2	6.2	3	4.2	2	R2	**$2,716**	$510	STD
	ACS800-U1-0006-5+P901	10.8	8.1	5	5.6	3	R2	**$2,832**	$510	STD
	ACS800-U1-0009-5+P901	13.8	11	7.5	8.1	5	R2	**$2,936**	$510	STD
	ACS800-U1-0011-5+P901	17.6	14	10	11	7.5	R2	**$3,402**	$510	STD
	ACS800-U1-0016-5+P901	24	21	15	15	10	R3	**$3,996**	$685	STD
	ACS800-U1-0020-5+P901	32	27	20	21	15	R3	**$4,571**	$685	STD
	ACS800-U1-0025-5+P901	46	34	25	27	20	R3	**$5,275**	$685	STD
	ACS800-U1-0030-5+P901	62	42	30	34	25	R4	**$7,420**	$905	$875
	ACS800-U1-0040-5+P901	72	52	40	37	30(3)	R4	**$8,616**	$905	$875
	ACS800-U1-0050-5+P901	86	65	50	52	40	R5	**$9,565**	$1,032	$995
	ACS800-U1-0060-5+P901	112	79	60	65	50	R5	**$12,823**	$1,032	$995
	ACS800-U1-0070-5+P901	138	96	75	77	60	R5	**$14,280**	$1,032	$995
	ACS800-U1-0100-5+P901	164	124	100	96	75	R6	**$16,773**	$1,750	$1,640
	ACS800-U1-0120-5+P901	202	157	125	124	100	R6	**$19,208**	$1,750	$1,640
	ACS800-U1-0140-5+P901	282	180	150	156	125	R6	**$21,227**	$1,750	$1,640
	ACS800-U1-0205-5+P901	326	254	200	215	150	R6	**$25,435**	$1,750	$1,640
	ACS800-**01**-0255-5+H358	351	285	-	234	-	R6	**$29,555**	$1,750	$1,640
Free Standing Drives	ACS800-02-0170-5+H358	326	192	150	162	125	R7	**$25,830**	NA	$2,100
	ACS800-02-0210-5+H358	384	240	200	192	150	R7	**$30,730**	NA	$2,100
	ACS800-02-0260-5+H358	432	286	200(3)	224	150	R7	**$36,330**	NA	$2,100
	ACS800-02-0320-5+H358	588	435	350	340	250	R8	**$37,080**	NA	$4,760
	ACS800-02-0400-5+H358	588	510	400	370	300	R8	**$50,180**	NA	$4,760
	ACS800-02-0440-5+H358	840	545	450	490	400	R8	**$59,530**	NA	$5,880
	ACS800-02-0490-5+H358	840	590	500	515(5)	450	R8	**$68,434**	NA	$5,880
	ACS800-02-0550-5+H358	1017	670	550	590(5)	500	R8	**$77,525**	NA	$5,880
	ACS800-02-0610-5+H358	1017	704	600	590(5)	500	R8	**$89,480**	NA	$5,880

General and specifically identified notes are on page 21

480Vac Ratings - Wall Mounted and Floor Mounted Drives

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

EMC/RFI Filter 2nd Envir	EMC/RFI Filter 1st Envir	Common Mode Filter	EMC/RFI Filter 2nd Envir	Btm Entry Btm Exit	US Gland Plate	European Cable lead through	Coated Boards	Safe Torque Off
+E200	**+E202**	**+E208**	**+E210**	**+H350 +H352**	**+H358**	**(-H358)**	**+P901**	**+Q967**
$210	$329	NA	NA	NA	STD	NA	INCL	$830
$210	$329	NA	NA	NA	STD	NA	INCL	$830
$210	$329	NA	NA	NA	STD	NA	INCL	$830
$210	$329	NA	NA	NA	STD	NA	INCL	$830
$210	$329	NA	NA	NA	STD	NA	INCL	$830
$210	$329	NA	NA	NA	STD	NA	INCL	$830
$210	$329	NA	NA	NA	STD	NA	INCL	$830
$210	$329	NA	NA	NA	STD	NA	INCL	$830
$266	$413	NA	NA	NA	STD	NA	INCL	$830
$266	$413	NA	NA	NA	STD	NA	INCL	$830
$532	$825	NA	NA	NA	STD	NA	INCL	$830
$532	$825	NA	NA	NA	STD	NA	INCL	$830
$532	$825	NA	NA	NA	STD	NA	INCL	$830
NA	$1,917	NA	$1,253	NA	STD	NA	INCL	$830
NA	$1,917	NA	$1,253	NA	STD	NA	INCL	$830
NA	$1,917	NA	$1,253	NA	STD	NA	INCL	$830
NA	$1,917	NA	$1,253	NA	STD	NA	INCL	$830
NA	$1,917	NA	$1,253	NA	INCL	CF	$1,025	$830
NA	CF	$1,260	$1,638	STD	INCL	(-630$)	$1,025	NA
NA	CF	$1,260	$1,638	STD	INCL	(-630$)	$1,025	NA
NA	CF	$1,260	$1,638	STD	INCL	(-630$)	$1,025	NA
NA	CF	$1,260	$2,154	STD	INCL	(-980$)	$1,025	NA
NA	CF	$1,260	$2,154	STD	INCL	(-980$)	$1,025	NA
NA	CF	$1,260	$2,154	STD	INCL	(-980$)	$1,025	NA
NA	CF	$1,260	$2,154	STD	INCL	(-980$)	$1,025	NA
NA	CF	$1,260	$2,154	STD	INCL	(-980$)	$1,025	NA
NA	CF	$1,260	$2,154	STD	INCL	(-980$)	$1,025	NA

690Vac Ratings - Wall Mounted and Floor Mounted Drives

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

		Type Code NEMA 1	Nominal Ratings						Frame Size	NEMA 1 List Price	UL type12 (IP55)
				Normal Duty (CT) (110% I_{2N})		HeavyDuty (CT) (150% I_{2HD})					
			I_{max} Amps	$I_{Cont\ max}$ Amps	I_{2N} Amps	P_N Hp	I_{2HD} Amps	P_{HD} Hp			+B056
Wall Mounted Drives	DS-AR4	ACS800-U1-0011-7	14	13	11.5	10	8.5	7.5	R4	**$3,262**	$905
		ACS800-U1-0016-7	19	17	15	15	11	10	R4	**$4,656**	$905
		ACS800-U1-0020-7	28	22	20	20	15	15	R4	**$5,258**	$905
		ACS800-U1-0025-7	38	25	23	20/25[3]	20	20	R4	**$7,022**	$905
		ACS800-U1-0030-7	44	33	30	30	25	25	R4	**$8,880**	$905
		ACS800-U1-0040-7	54	36	34	30	30	30	R4	**$10,234**	$905
	DS-A86	ACS800-U1-0050-7	68	51	46	40	39	40	R5	**$10,798**	$1,032
		ACS800-U1-0060-7	84	57	52	50	42	40	R5	**$11,418**	$1,032
		ACS800-U1-0070-7	104	79	73	60/75	54	50	R6	**$13,042**	$1,750
		ACS800-U1-0100-7	124	93	86	75/100[11]	62	60	R6	**$15,092**	$1,750
		ACS800-U1-0120-7	172	113	108	100	86	75	R6	**$17,250**	$1,750
		ACS800-U1-0145-7	190	134	125	125	99	100	R6	**$19,898**	$1,750
		ACS800-U1-0175-7	245	166	155	150	131	125	R6	**$21,688**	$1,750
		ACS800-U1-0205-7	245	NA	192	200	147	150	R6	**$23,446**	$1,750
Free Standing Drives		ACS800-02-0140-7+H358	190	134	125	125	95	100	R7	**$23,043**	NA
		ACS800-02-0170-7+H358	263	166	155	150	131	125	R7	**$24,318**	NA
		ACS800-02-0210-7+H358	294	166/203[6]	165/195[6]	150/200[6]	147	150	R7	**$29,232**	NA
		ACS800-02-0260-7+H358	326	175/230[6]	175/212[6]	200	163	150	R7	**$33,264**	NA
		ACS800-02-0320-7+H358	433	315	290	300	216	200	R8	**$34,202**	NA
		ACS800-02-0400-7+H358	548	353	344	350	274	250/300[12]	R8	**$41,424**	NA
		ACS800-02-0440-7+H358	656	396	387	400	328	350	R8	**$50,212**	NA
		ACS800-02-0490-7+H358	775	445	426	450	387	400	R8	**$57,848**	NA
		ACS800-02-0550-7+H358	853	488	482	500	426	450	R8	**$73,080**	NA
		ACS800-02-0610-7+H358	964	560	537	600[12]	482	500	R8	**$85,030**	NA

General and specifically identified notes are on page 21

690Vac Ratings - Wall Mounted and Floor Mounted Drives

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

Brake Chopper	EMC/RFI Filter 2nd Envir	EMC/RFI Filter 1st Envir	Common Mode Filter	EMC/RFI Filter 2nd Envir	Btm Entry Btm Exit	US Gland Plate	Coated Boards	Safe Torque Off
+D150	**+E200**	**+E202**	**+E208**	**+E210**	**+H350 +H352**	**+H358**	**+P901**	**+Q967**
STD	$266	NA	NA	NA	NA	STD	$553	$830
STD	$266	NA	NA	NA	NA	STD	$553	$830
STD	$266	NA	NA	NA	NA	STD	$553	$830
STD	$266	NA	NA	NA	NA	STD	$553	$830
STD	$266	NA	NA	NA	NA	STD	$553	$830
STD	$266	NA	NA	NA	NA	STD	$553	$830
$995	$532	NA	NA	NA	NA	STD	$553	$830
$995	$532	NA	NA	NA	NA	STD	$553	$830
$1,640	NA	NA	NA	$1,253	NA	STD	$916	$830
$1,640	NA	NA	NA	$1,253	NA	STD	$916	$830
$1,640	NA	NA	NA	$1,253	NA	STD	$916	$830
$1,640	NA	NA	NA	$1,253	NA	STD	$916	$830
$1,640	NA	NA	NA	$1,253	NA	STD	$916	$830
$1,640	NA	NA	NA	$1,253	NA	STD	$916	$830
$2,100	NA	CF	$1,260	$1,638	STD	INCL	$1,025	NA
$2,100	NA	CF	$1,260	$1,638	STD	INCL	$1,025	NA
$2,100	NA	CF	$1,260	$1,638	STD	INCL	$1,025	NA
$2,100	NA	CF	$1,260	$1,638	STD	INCL	$1,025	NA
$4,760	NA	CF	$1,260	$2,154	STD	INCL	$1,025	NA
$4,760	NA	CF	$1,260	$2,154	STD	INCL	$1,025	NA
$5,880	NA	CF	$1,260	$2,154	STD	INCL	$1,025	NA
$5,880	NA	CF	$1,260	$2,154	STD	INCL	$1,025	NA
$5,880	NA	CF	$1,260	$2,154	STD	INCL	$1,025	NA
$5,880	NA	CF	$1,260	$2,154	STD	INCL	$1,025	NA

480Vac Ratings - Cabinet Drives

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

DS-CAB	Type Code NEMA 1	I_{max} Amps	Nominal Ratings						Frame Size	NEMA 1 List Price	NEMA 1 Filtered UL Type 1 (IP42)
			$I_{Cont\ max}$ Amps	Normal Duty (CT) (110% I_{2N})		HeavyDuty (CT) (150% I_{2HD})					
				I_{2N} Amps	P_N Hp	I_{2HD} Amps	P_{HD} Hp				+B054
Cabinet Drives	ACS800-07-0105-5	170	-	141	100	100	75		R6	**$22,650**	$1,500
	ACS800-07-0120-5	202	-	157	125	124	100		R6	**$25,332**	$1,500
	ACS800-07-0140-5	282	-	180	150	156	125		R6	**$29,600**	$1,500
	ACS800-07-0165-5	326	-	220	150	163	125		R6	**$32,666**	$1,500
	ACS800-07-0205-5	326	-	254	200	215	150		R6	**$34,554**	$1,500
	ACS800-07-0255-5	351	-	285	-	234	-		R6	**$38,654**	$1,500
	ACS800-07-0320-5	588	-	435	350	340	250		R8	**$44,622**	$1,500
	ACS800-07-0400-5	588	-	510	400	370	300		R8	**$58,422**	$1,500
	ACS800-07-0440-5	840	-	545	450	490	400		R8	**$68,832**	$1,500
	ACS800-07-0490-5	840	-	590	500	515(5)	450		R8	**$78,558**	$1,500
	ACS800-07-0550-5	1017	-	670	550	590(5)	500		R8	**$90,558**	$1,500
	ACS800-07-0610-5	1017	-	704	600	590(5)	500		R8	**$104,000**	$1,500

General and specifically identified notes are on page 21

690Vac Ratings - Cabinet Drives

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

DS-CAB	Type Code NEMA 1	I_{max} Amps	Nominal Ratings						Frame Size	NEMA 1 List Price	NEMA 1 Filtered UL Type 1 (IP42)
			$I_{Cont\ max}$ Amps	Normal Duty (CT) (110% I_{2N})		HeavyDuty (CT) (150% I_{2HD})					
				I_{2N} Amps	P_N Hp	I_{2HD} Amps	P_{HD} Hp				+B054
Cabinet Drives	ACS800-07-0070-7	104	79	73	60/75	54	50		R6	**$21,945**	$1,500
	ACS800-07-0100-7	124	93	86	75/100(11)	62	60		R6	**$24,112**	$1,500
	ACS800-07-0120-7	172	113	108	100	86	75		R6	**$26,778**	$1,500
	ACS800-07-0145-7	190	134	125	125	99	100		R6	**$29,779**	$1,500
	ACS800-07-0175-7	245	166	155	150	131	125		R6	**$31,628**	$1,500
	ACS800-07-0205-7	245	190	192	200	147	150		R6	**$35,344**	$1,500
	ACS800-07-0260-7	326	175/230(6)	175/212(6)	200	163	150		R7	**$39,010**	$1,500
	ACS800-07-0320-7	433	315	290	300	216	200		R8	**$44,444**	$1,500
	ACS800-07-0400-7	548	353	344	350	274	250/300(12)		R8	**$48,566**	$1,500
	ACS800-07-0440-7	656	396	387	400	328	350		R8	**$60,100**	$1,500
	ACS800-07-0490-7	775	445	426	450	387	400		R8	**$68,544**	$1,500
	ACS800-07-0550-7	853	488	482	500	426	450		R8	**$77,200**	$1,500
	ACS800-07-0610-7	964	560	537	600(12)	482	500		R8	**$90,866**	$1,500

General and specifically identified notes are on page 21

480Vac Ratings - Cabinet Drives

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

UL type12 (IP54)	UL Approved	CSA Approved	Brake Chopper	dU/dt Choke	Common Mode Filter	E-Stop CAT 0	E-Stop CAT 1	Top Entry (8)	Top Exit (8)	Btm Entry (8)	Btm Exit (8)	Coated Boards	Safe Torque Off
+B055	**+C129**	**+C134**	**+D150**	**+E205(7)**	**+E208**	**+Q963**	**+Q964**	**+H351**	**+H353**	**+H350**	**+H352**	**+P901**	**+Q968**
$3,500	$3,256	$1,946	$995	$2,389	NA	$3,200	$5,200	$826	$826	$826	$826	$916	$1,600
$3,500	$3,256	$1,946	$1,640	$2,389	NA	$3,200	$5,200	$826	$826	$826	$826	$916	$1,600
$3,500	$3,256	$1,946	$1,640	$2,950	NA	$3,200	$5,200	$826	$826	$826	$826	$916	$1,600
$3,500	$3,256	$1,946	$1,640	$2,950	NA	$3,200	$5,200	$826	$826	$826	$826	$916	$1,600
$3,500	$3,256	$1,946	$1,640	$2,950	$1,260	$3,200	$5,200	$826	$826	$826	$826	$916	$1,600
$3,500	$3,256	$1,946	$1,640	$2,950	$1,260	$3,200	$5,200	$826	$826	$826	$826	$916	$1,600
$4,100	$3,822	$2,440	$4,760	$5,300	$1,260	$3,200	$5,200	$826	$826	$826	$826	$1,025	$1,600
$4,100	$3,822	$2,440	$4,760	$5,300	$1,260	$3,200	$5,200	$826	$826	$826	$826	$1,025	$1,600
$4,100	$3,822	$2,440	$5,880	$5,300	$1,260	$3,200	$5,200	$826	$826	$826	$826	$1,025	$1,600
$4,100	$3,822	$2,440	$5,880	$5,300	$1,260	$3,200	$5,200	$826	$826	$826	$826	$1,025	$1,600
$4,100	$3,822	$2,440	$5,880	$5,300	$1,260	$3,200	$5,200	$826	$826	$826	$826	$1,025	$1,600
$4,100	$3,822	$2,440	$5,880	$5,300	$1,260	$3,200	$5,200	$826	$826	$826	$826	$1,025	$1,600

690Vac Ratings - Cabinet Drives

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

UL type12 (IP54)	UL Approved	CSA Approved	Brake Chopper	dU/dt Choke	Common Mode Filter	E-Stop CAT 0	E-Stop CAT 1	Top Entry (8)	Top Exit (8)	Btm Entry (8)	Btm Exit (8)	Coated Boards	Safe Torque Off
+B055	**+C129**	**+C134**	**+D150**	**+E205(7)**	**+E208**	**+Q963**	**+Q964**	**+H351**	**+H353**	**+H350**	**+H352**	**+P901**	**+Q968**
$3,500	$3,256	$1,946	$1,640	$2,389	NA	$3,200	$5,200	$826	$826	$826	$826	$916	$1,600
$3,500	$3,256	$1,946	$1,640	$2,389	NA	$3,200	$5,200	$826	$826	$826	$826	$916	$1,600
$3,500	$3,256	$1,946	$1,640	$2,389	NA	$3,200	$5,200	$826	$826	$826	$826	$916	$1,600
$3,500	$3,256	$1,946	$1,640	$2,950	$1,260	$3,200	$5,200	$826	$826	$826	$826	$916	$1,600
$3,500	$3,256	$1,946	$1,640	$2,950	$1,260	$3,200	$5,200	$826	$826	$826	$826	$916	$1,600
$3,500	$3,256	$1,946	$1,640	$2,950	$1,260	$3,200	$5,200	$826	$826	$826	$826	$916	$1,600
$4,100	$3,256	$1,946	$2,100	$3,054	$1,260	$3,200	$5,200	$826	$826	$826	$826	$1,025	$1,600
$4,100	$3,822	$2,440	$4,760	$5,300	$1,260	$3,200	$5,200	$826	$826	$826	$826	$1,025	$1,600
$4,100	$3,822	$2,440	$4,760	$5,300	$1,260	$3,200	$5,200	$826	$826	$826	$826	$1,025	$1,600
$4,100	$3,822	$2,440	$5,880	$5,300	$1,260	$3,200	$5,200	$826	$826	$826	$826	$1,025	$1,600
$4,100	$3,822	$2,440	$5,880	$5,300	$1,260	$3,200	$5,200	$826	$826	$826	$826	$1,025	$1,600
$4,100	$3,822	$2,440	$5,880	$5,300	$1,260	$3,200	$5,200	$826	$826	$826	$826	$1,025	$1,600
$4,100	$3,822	$2,440	$5,880	$5,300	$1,260	$3,200	$5,200	$826	$826	$826	$826	$1,025	$1,600

480Vac Ratings - Drive Modules

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

DS-A84	Type Code IP00	I_{max} Amps	Nominal Ratings: Normal Duty (CT) (110% I_{2N}) I_{2N} Amps	Normal Duty (CT) P_N Hp	HeavyDuty (CT) (150% I_{2HD}) I_{2HD} Amps	HeavyDuty (CT) P_{HD} Hp	Frame Size	NEMA 1 List Price	Brake Chopper +D150	EMC/RFI Filter 2nd Envir +E200
Drive Module Wall Mount	ACS800-04-0004-5	6.5	4.9	3	3.4	2	R2	**$1,963**	STD	$210
	ACS800-04-0005-5	8.2	6.2	3	4.2	2	R2	**$2,056**	STD	$210
	ACS800-04-0006-5	10.8	8.1	5	5.6	3	R2	**$2,166**	STD	$210
	ACS800-04-0009-5	13.8	11	7.5	8.1	5	R2	**$2,256**	STD	$210
	ACS800-04-0011-5	17.6	14	10	11	7.5	R2	**$2,708**	STD	$210
	ACS800-04-0016-5	24	21	15	15	10	R3	**$3,272**	STD	$210
	ACS800-04-0020-5	32	27	20	21	15	R3	**$3,819**	STD	$210
	ACS800-04-0025-5	46	34	25	27	20	R3	**$4,488**	STD	$210
	ACS800-04-0030-5	62	42	30	34	25	R4	**$6,525**	$875	$266
	ACS800-04-0040-5	72	52	40	37	30(3)	R4	**$7,661**	$875	$266
	ACS800-04-0050-5	86	65	50	52	40	R5	**$8,562**	$995	$532
	ACS800-04-0060-5	112	79	60	65	50	R5	**$11,657**	$995	$532
	ACS800-04-0070-5	138	96	75	77	60	R5	**$13,042**	$995	$532
	ACS800-04-0100-5	164	124	100	96	75	R6	**$15,411**	$1,640	NA
	ACS800-04-0120-5	202	157	125	124	100	R6	**$17,724**	$1,640	NA
	ACS800-04-0140-5	282	180	150	156	125	R6	**$19,641**	$1,640	NA
	ACS800-04-0205-5	326	254	200	215	150	R6	**$23,461**	$1,640	NA
Drive Module	ACS800-04-0170-5	326	192	150	162	125	R7	**$23,380**	$2,100	NA
	ACS800-04-0210-5	384	240	200	192	150	R7	**$27,440**	$2,100	NA
	ACS800-04-0260-5	432	286	200(3)	224	150	R7	**$30,144**	$2,100	NA
	ACS800-04-0320-5	588	435	350	340	250	R8	**$31,900**	$4,760	NA
	ACS800-04-0400-5	588	510	400	370	300	R8	**$46,556**	$4,760	NA
	ACS800-04-0440-5	840	545	450	490	400	R8	**$56,000**	$5,880	NA
	ACS800-04-0490-5	840	590	500	515(5)	450	R8	**$65,100**	$5,880	NA
	ACS800-04-0550-5	1017	670	550	590(5)	500	R8	**$72,800**	$5,880	NA
	ACS800-04-0610-5	1017	704	600	590(5)	500	R8	**$84,000**	$5,880	NA
Drive Module Only	ACS800-04M-0170-5	326	192	150	162	125	R7	**$21,310**	$2,100	NA
	ACS800-04M-0210-5	384	240	200	192	150	R7	**$25,370**	$2,100	NA
	ACS800-04M-0260-5	432	286	200(3)	224	150	R7	**$28,074**	$2,100	NA
	ACS800-04M-0320-5	588	435	350	340	250	R8	**$28,990**	$4,760	NA
	ACS800-04M-0400-5	588	510	400	370	300	R8	**$43,646**	$4,760	NA
	ACS800-04M-0440-5	840	545	450	490	400	R8	**$53,090**	$5,880	NA
	ACS800-04M-0490-5	840	590	500	515(5)	450	R8	**$62,190**	$5,880	NA
	ACS800-04M-0550-5	1017	670	550	590(5)	500	R8	**$69,890**	$5,880	NA
	ACS800-04M-0610-5	1017	704	600	590(5)	500	R8	**$81,090**	$5,880	NA

General and specifically identified notes are on page 21

480Vac Ratings - Drive Modules

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

EMC/RFI Filter 1st Envir	Common Mode Filter	EMC/RFI Filter 2nd Envir	Coated Boards	Safe Torque Off	Bottom Entry Kit	Bookshelf Pedestal	Flat Type Pedestal	Busbar Kit DC/Br Res.	Vertical Busbar Motor	Vertical Busbar DC/ Br Res.	Split Side DC/Br Res. Busbards	IP20 Shroud
+E202	**+E208**	**+E210**	**+P901**	**+Q967**	**+H352[13]**	**+H354[13]**	**+H360[13]**	**+H356[13]**	**+H355[13]**	**+H362[13]**	**+H363[13]**	**+B060[13]**
$329	NA	NA	$553	$830	NA	NA	NA	NA	NA	NA	NA	NA
$329	NA	NA	$553	$830	NA	NA	NA	NA	NA	NA	NA	NA
$329	NA	NA	$553	$830	NA	NA	NA	NA	NA	NA	NA	NA
$329	NA	NA	$553	$830	NA	NA	NA	NA	NA	NA	NA	NA
$329	NA	NA	$553	$830	NA	NA	NA	NA	NA	NA	NA	NA
$329	NA	NA	$553	$830	NA	NA	NA	NA	NA	NA	NA	NA
$329	NA	NA	$553	$830	NA	NA	NA	NA	NA	NA	NA	NA
$329	NA	NA	$553	$830	NA	NA	NA	NA	NA	NA	NA	NA
$413	NA	NA	$553	$830	NA	NA	NA	NA	NA	NA	NA	NA
$413	NA	NA	$553	$830	NA	NA	NA	NA	NA	NA	NA	NA
$825	NA	NA	$553	$830	NA	NA	NA	NA	NA	NA	NA	NA
$825	NA	NA	$553	$830	NA	NA	NA	NA	NA	NA	NA	NA
$825	NA	NA	$553	$830	NA	NA	NA	NA	NA	NA	NA	NA
$1,917	NA	$1,253	$916	$830	NA	NA	NA	NA	NA	NA	NA	NA
$1,917	NA	$1,253	$916	$830	NA	NA	NA	NA	NA	NA	NA	NA
$1,917	NA	$1,253	$916	$830	NA	NA	NA	NA	NA	NA	NA	NA
$1,917	NA	$1,253	$916	$830	NA	NA	NA	NA	NA	NA	NA	NA
CF	$1,260	$1,638	$1,025	$830	NA	NA	NA	NA	NA	NA	NA	NA
CF	$1,260	$1,638	$1,025	$830	NA	NA	NA	NA	NA	NA	NA	NA
CF	$1,260	$1,638	$1,025	$830	NA	NA	NA	NA	NA	NA	NA	NA
CF	$1,260	$2,154	$1,025	$830	NA	NA	NA	NA	NA	NA	NA	NA
CF	$1,260	$2,154	$1,025	$830	NA	NA	NA	NA	NA	NA	NA	NA
CF	$1,260	$2,154	$1,025	$830	NA	NA	NA	NA	NA	NA	NA	NA
CF	$1,260	$2,154	$1,025	$830	NA	NA	NA	NA	NA	NA	NA	NA
CF	$1,260	$2,154	$1,025	$830	NA	NA	NA	NA	NA	NA	NA	NA
CF	$1,260	$2,154	$1,025	$830	NA	NA	NA	NA	NA	NA	NA	NA
CF	$1,260	$1,638	$1,025	$830	$350	$800	$800	$400	$410	$460	$400	$300
CF	$1,260	$1,638	$1,025	$830	$350	$800	$800	$400	$410	$460	$400	$300
CF	$1,260	$1,638	$1,025	$830	$350	$800	$800	$400	$410	$460	$400	$300
CF	$1,260	$2,154	$1,025	$830	NA	$1,400	$1,400	$440	$550	$520	$480	$600
CF	$1,260	$2,154	$1,025	$830	NA	$1,400	$1,400	$440	$550	$520	$480	$600
CF	$1,260	$2,154	$1,025	$830	NA	$1,400	$1,400	$440	$550	$520	$480	$600
CF	$1,260	$2,154	$1,025	$830	NA	$1,400	$1,400	$440	$550	$520	$480	$600
CF	$1,260	$2,154	$1,025	$830	NA	$1,400	$1,400	$440	$550	$520	$480	$600
CF	$1,260	$2,154	$1,025	$830	NA	$1,400	$1,400	$440	$550	$520	$480	$600

690Vac Ratings - Drive Modules

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

		Type Code IP00	Nominal Ratings I_{max} Amps	Nominal Ratings $I_{Cont\ max}$ Amps	Normal Duty (CT) (110% I_{2N}) I_{2N} Amps	Normal Duty (CT) (110% I_{2N}) P_N Hp	HeavyDuty (CT) (150% I_{2HD}) I_{2HD} Amps	HeavyDuty (CT) (150% I_{2HD}) P_{HD} Hp	Frame Size	NEMA 1 List Price	Brake Chopper +D150
Drive Module Panel Wall Mount	DS-AR4	ACS800-04-0011-7	14	13	11.5	10	8.5	7.5	R4	**$2,574**	STD
		ACS800-04-0016-7	19	17	15	15	11	10	R4	**$3,900**	STD
		ACS800-04-0020-7	28	22	20	20	15	15	R4	**$4,472**	STD
		ACS800-04-0025-7	38	25	23	20/25[3]	20	20	R4	**$6,146**	STD
		ACS800-04-0030-7	44	33	30	30	25	25	R4	**$7,912**	STD
		ACS800-04-0040-7	54	36	34	30	30	30	R4	**$9,198**	STD
Drive Module	DS-A86	ACS800-04-0050-7	68	51	46	40	39	40	R5	**$9,734**	$995
		ACS800-04-0060-7	84	57	52	50	42	40	R5	**$10,324**	$995
		ACS800-04-0070-7	104	79	73	60/75	54	50	R6	**$11,866**	$1,640
		ACS800-04-0100-7	124	93	86	75/100[11]	62	60	R6	**$14,764**	$1,640
		ACS800-04-0120-7	172	113	108	100	86	75	R6	**$17,618**	$1,640
		ACS800-04-0145-7	190	134	125	125	99	100	R6	**$18,903**	$1,640
		ACS800-04-0175-7	245	166	155	150	131	125	R6	**$20,603**	$1,640
		ACS800-04-0205-7	245	190	192	200	147	150	R6	**$22,274**	$1,640
		ACS800-04-0140-7	190	134	125	125	95	100	R7	**$21,346**	$2,100
		ACS800-04-0170-7	263	166	155	150	131	125	R7	**$22,560**	$2,100
		ACS800-04-0210-7	294	166/203[6]	165/195[6]	150/200[6]	147	150	R7	**$27,240**	$2,100
		ACS800-04-0260-7	326	175/230[6]	175/212[6]	200	163	150	R7	**$28,446**	$2,100
		ACS800-04-0320-7	433	315	290	300	216	200	R8	**$29,000**	$4,760
		ACS800-04-0400-7	548	353	344	350	274	250/300[12]	R8	**$37,500**	$4,760
		ACS800-04-0440-7	656	396	387	400	328	350	R8	**$46,000**	$5,880
		ACS800-04-0490-7	775	445	426	450	387	400	R8	**$54,654**	$5,880
		ACS800-04-0550-7	853	488	482	500	426	450	R8	**$66,332**	$5,880
		ACS800-04-0610-7	964	560	537	600[12]	482	500	R8	**$79,000**	$5,880
Drive Module Only		ACS800-04M-0140-7	190	134	125	125	95	100	R7	**$19,276**	$2,100
		ACS800-04M-0170-7	263	166	155	150	131	125	R7	**$20,490**	$2,100
		ACS800-04M-0210-7	294	166/203[6]	165/195[6]	150/200[6]	147	150	R7	**$25,170**	$2,100
		ACS800-04M-0260-7	326	175/230[6]	175/212[6]	200	163	150	R7	**$25,956**	$2,100
		ACS800-04M-0320-7	433	315	290	300	216	200	R8	**$26,090**	$4,760
		ACS800-04M-0400-7	548	353	344	350	274	250/300[12]	R8	**$34,590**	$4,760
		ACS800-04M-0440-7	656	396	387	400	328	350	R8	**$43,090**	$5,880
		ACS800-04M-0490-7	775	445	426	450	387	400	R8	**$51,744**	$5,880
		ACS800-04M-0550-7	853	488	482	500	426	450	R8	**$63,422**	$5,880
		ACS800-04M-0610-7	964	560	537	600[12]	482	500	R8	**$76,090**	$5,880

General and specifically identified notes are on page 21

690Vac Ratings - Drive Modules

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

EMC/RFI Filter 2nd Envir	EMC/RFI Filter 1st Envir	Common Mode Filter	EMC/RFI Filter 2nd Envir	Coated Boards	Safe Torque Off	Bottom Entry Kit	Bookshelf Pedestal	Flat Type Pedestal	Busbar Kit DC/Br Res.	Vertical Busbar Motor	Vertical Busbar DC/ Br Res.	Split Side DC/Br Res. Busbards	IP20 Shroud
+E200	**+E202**	**+E208**	**+E210**	**+P901**	**+Q967**	**+H352**[13]	**+H354**[13]	**+H360**[13]	**+H356**[13]	**+H355**[13]	**+H362**[13]	**+H363**[13]	**+B060**[13]
$266	NA	NA	NA	$553	$830	NA	NA	NA	NA	NA	NA	NA	NA
$266	NA	NA	NA	$553	$830	NA	NA	NA	NA	NA	NA	NA	NA
$266	NA	NA	NA	$553	$830	NA	NA	NA	NA	NA	NA	NA	NA
$266	NA	NA	NA	$553	$830	NA	NA	NA	NA	NA	NA	NA	NA
$266	NA	NA	NA	$553	$830	NA	NA	NA	NA	NA	NA	NA	NA
$266	NA	NA	NA	$553	$830	NA	NA	NA	NA	NA	NA	NA	NA
$532	NA	NA	NA	$553	$830	NA	NA	NA	NA	NA	NA	NA	NA
$532	NA	NA	NA	$553	$830	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	$1,253	$916	$830	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	$1,253	$916	$830	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	$1,253	$916	$830	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	$1,253	$916	$830	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	$1,253	$916	$830	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	$1,253	$916	$830	NA	NA	NA	NA	NA	NA	NA	NA
NA	CF	$1,260	$1,638	$1,025	$830	NA	NA	NA	NA	NA	NA	NA	NA
NA	CF	$1,260	$1,638	$1,025	$830	NA	NA	NA	NA	NA	NA	NA	NA
NA	CF	$1,260	$1,638	$1,025	$830	NA	NA	NA	NA	NA	NA	NA	NA
NA	CF	$1,260	$1,638	$1,025	$830	NA	NA	NA	NA	NA	NA	NA	NA
NA	CF	$1,260	$2,154	$1,025	$830	NA	NA	NA	NA	NA	NA	NA	NA
NA	CF	$1,260	$2,154	$1,025	$830	NA	NA	NA	NA	NA	NA	NA	NA
NA	CF	$1,260	$2,154	$1,025	$830	NA	NA	NA	NA	NA	NA	NA	NA
NA	CF	$1,260	$2,154	$1,025	$830	NA	NA	NA	NA	NA	NA	NA	NA
NA	CF	$1,260	$2,154	$1,025	$830	NA	NA	NA	NA	NA	NA	NA	NA
NA	CF	$1,260	$2,154	$1,025	$830	NA	NA	NA	NA	NA	NA	NA	NA
NA	CF	$1,260	$1,638	$1,025	$830	$350	$800	$800	$400	$410	$460	$400	$300
NA	CF	$1,260	$1,638	$1,025	$830	$350	$800	$800	$400	$410	$460	$400	$300
NA	CF	$1,260	$1,638	$1,025	$830	$350	$800	$800	$400	$410	$460	$400	$300
NA	CF	$1,260	$1,638	$1,025	$830	$350	$800	$800	$400	$410	$460	$400	$300
NA	CF	$1,260	$2,154	$1,025	$830	NA	$1,400	$1,400	$440	$550	$520	$480	$600
NA	CF	$1,260	$2,154	$1,025	$830	NA	$1,400	$1,400	$440	$550	$520	$480	$600
NA	CF	$1,260	$2,154	$1,025	$830	NA	$1,400	$1,400	$440	$550	$520	$480	$600
NA	CF	$1,260	$2,154	$1,025	$830	NA	$1,400	$1,400	$440	$550	$520	$480	$600
NA	CF	$1,260	$2,154	$1,025	$830	NA	$1,400	$1,400	$440	$550	$520	$480	$600
NA	CF	$1,260	$2,154	$1,025	$830	NA	$1,400	$1,400	$440	$550	$520	$480	$600

240Vac Rating - Wall Mounted Regenerative Drives

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

DS-AR4	Type Code NEMA 1	I_{max} Amps	Nominal Ratings				Frame Size	NEMA 1 List Price	EMC/RFI Filter 2nd Envir	EMC/RFI Filter 1st Envir
			Normal Duty (CT) (110% I_{2N})		HeavyDuty (CT) (150% I_{2HD})					
			I_{2N} Amps	P_N Hp	I_{2HD} Amps	P_{HD} Hp			+E200	+E202
Wall Mounted Drives	ACS800-U11-0011-2	52	32.2	10	26	7.5	R5	**$10,334**	$825	$1,917
	ACS800-U11-0016-2	68	44.7	15	38	10	R5	**$12,950**	$825	$1,917
	ACS800-U11-0020-2	90	56.1	20	45	10	R5	**$14,876**	$825	$1,917
	ACS800-U11-0025-2	118	69	25	59	15	R5	**$17,843**	$825	$1,917
	ACS800-U11-0030-2	144	83	30	72	20	R5	**$21,322**	$825	$1,917
	ACS800-U11-0040-2	168	114	40	84	25	R6	**$24,324**	$1,253	$1,917
	ACS800-U11-0050-2	234	143	50	117	30	R6	**$26,554**	$1,253	$1,917
	ACS800-U11-0060-2	234	157	60	132	40	R6	**$32,146**	$1,253	$1,917

General and specifically identified notes are on page 21

480Vac Rating - Wall Mounted Regenerative Drives

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

DS-AR4	Type Code NEMA 1	I_{max} Amps	Nominal Ratings				Frame Size	NEMA 1 List Price	EMC/RFI Filter 2nd Envir	EMC/RFI Filter 1st Envir
			Normal Duty (CT) (110% I_{2N})		HeavyDuty (CT) (150% I_{2HD})					
			I_{2N} Amps	P_N Hp	I_{2HD} Amps	P_{HD} Hp			+E200	+E202
Wall Mounted Drives	ACS800-U11-0020-5	52	29	20	25	15	R5	**$10,334**	$825	$1,917
	ACS800-U11-0025-5	61	34	25	30	20	R5	**$11,670**	$825	$1,917
	ACS800-U11-0030-5	68	45	30	37	25	R5	**$13,108**	$825	$1,917
	ACS800-U11-0040-5	90	55	40	47	30	R5	**$15,016**	$825	$1,917
	ACS800-U11-0050-5	118	67	50	57	40	R5	**$17,373**	$825	$1,917
	ACS800-U11-0060-5	144	78	60	62	50	R5	**$20,819**	$825	$1,917
	ACS800-U11-0070-5	168	114	75	88	60	R6	**$23,510**	$1,253	$1,917
	ACS800-U11-0100-5	234	132	100	114	75	R6	**$27,580**	$1,253	$1,917
	ACS800-U11-0120-5	264	156	125	125	100	R6	**$32,054**	$1,253	$1,917

General and specifically identified notes are on page 21

600Vac Rating - Wall Mounted Regenerative Drives

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

DS-AR4	Type Code NEMA 1	I_{max} Amps	Nominal Ratings				Frame Size	NEMA 1 List Price	EMC/RFI Filter 2nd Envir	EMC/RFI Filter 1st Envir
			Normal Duty (CT) (110% I_{2N})		HeavyDuty (CT) (150% I_{2HD})					
			I_{2N} Amps	P_N Hp	I_{2HD} Amps	P_{HD} Hp			+E200	+E202
Wall Mounted Drives	ACS800-11-0060-7+H358	86	54	50	43	40	R6	**$24,353**	$1,253	$1,917
	ACS800-11-0070-7+H358	120	75	75	60	60	R6	**$28,104**	$1,253	$1,917
	ACS800-11-0100-7+H358	142	88	75	71	75	R6	**$31,027**	$1,253	$1,917

General and specifically identified notes are on page 21

240Vac Rating - Wall Mounted Regenerative Drives

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

US Gland Plate	Coated Boards	Safe Torque Off
+H358	**+P901**	**+Q967**
STD	STD	$830
STD	STD	$830
STD	STD	$830
STD	STD	$830
STD	STD	$830
STD	STD	$830
STD	STD	$830
STD	STD	$830

480Vac Rating - Wall Mounted Regenerative Drives

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

US Gland Plate	Coated Boards	Safe Torque Off
+H358	**+P901**	**+Q967**
STD	STD	$830
STD	STD	$830
STD	STD	$830
STD	STD	$830
STD	STD	$830
STD	STD	$830
STD	STD	$830
STD	STD	$830
STD	STD	$830

600Vac Rating - Wall Mounted Regenerative Drives

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

US Gland Plate	Coated Boards	Safe Torque Off
+H358	**+P901**	**+Q967**
INCL	STD	$830
INCL	STD	$830
INCL	STD	$830

480Vac Rating - Regenerative Cabinet Drives

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

DS-CAB	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	Frame Size	NEMA 1 List Price	NEMA 1 Filtered UL Type 1 (IP42) +B054	UL type12 (IP54) +B055
Wall Mounted Drives	ACS800-17-0070-5	168	114	75	88	60	R6i	**$29,181**	$1,500	$3,500
	ACS800-17-0100-5	234	132	100	114	75	R6i	**$34,098**	$1,500	$3,500
	ACS800-17-0120-5	264	156	125	125	100	R6i	**$40,154**	$1,500	$3,500
	ACS800-17-0170-5	291	192	150	156	125	R7i	**$51,392**	$1,500	$4,100
	ACS800-17-0210-5	356	240	200	183	150	R7i	**$60,856**	$1,500	$4,100
	ACS800-17-0260-5	438	302	250	226	150	R8i	**$70,679**	$2,150	$6,600
	ACS800-17-0320-5	530	361	300	273	200	R8i	**$82,972**	$2,150	$6,600
	ACS800-17-0400-5	660	437	350	340	250	R8i	**$99,105**	$2,150	$6,600
	ACS800-17-0460-5	762	504	400	393	300	R8i	**$111,281**	$2,150	$6,600
	ACS800-17-0510-5	863	571	450	445	350	R8i	**$122,669**	$2,150	$6,600
	ACS800-17-0580-5	972	643	500	501	400	R8i	**$148,935**	$2,150	$6,600

General and specifically identified notes are on page 21

600Vac Rating - Regenerative Cabinet Drives

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

DS-CAB	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	Frame Size	NEMA 1 List Price	NEMA 1 Filtered UL Type 1 (IP42) +B054	UL type12 (IP54) +B055
Cabinet Drives	ACS800-17-0060-7	86	54	50	43	40	R6	**$31,784**	$1,500	$3,500
	ACS800-17-0070-7	120	75	75	60	60	R6	**$36,974**	$1,500	$3,500
	ACS800-17-0100-7	142	88	75	71	75	R6	**$41,510**	$1,500	$3,500
	ACS800-17-0160-7	192	127	125	99	100	R7i	**$52,541**	$1,500	$4,100
	ACS800-17-0200-7	218	144	150	112	125	R7i	**$61,307**	$1,500	$4,100
	ACS800-17-0260-7	301	193	200	150	150	R8i	**$73,891**	$2,150	$6,600
	ACS800-17-0320-7	417	268	250	209	200	R8i	**$87,527**	$2,150	$6,600
	ACS800-17-0400-7	502	322	300	251	250	R8i	**$104,521**	$2,150	$6,600
	ACS800-17-0440-7	571	367	350	286	300	R8i	**$116,625**	$2,150	$6,600
	ACS800-17-0540-7	668	429	450	334	350	R8i	**$141,445**	$2,150	$6,600

General and specifically identified notes are on page 21

480Vac Rating - Regenerative Cabinet Drives

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

UL Approved	CSA Approved	dU/dt Choke	E-Stop CAT 0	E-Stop CAT 1	Top Entry (13)	Top Exit (13)	Btm Entry (13)	Btm Exit (13)	Coated Boards	Safe Torque Off
+C129	**+C134**	**+E205(7)**	**+Q963**	**+Q964**	**+H351**	**+H353**	**+H350**	**+H352**	**+P901**	**+Q968**
$3,256	$1,946	$2,389	$3,200	$5,200	$826	$826	$826	$826	STD	$1,600
$3,256	$1,946	$2,389	$3,200	$5,200	$826	$826	$826	$826	STD	$1,600
$3,256	$1,946	$2,389	$3,200	$5,200	$826	$826	$826	$826	STD	$1,600
$3,256	$1,946	$3,054	$3,200	$5,200	$826	$826	$826	$826	STD	$1,600
$3,256	$1,946	$3,054	$3,200	$5,200	$826	$826	$826	$826	STD	$1,600
$3,822	$2,440	$3,554	$3,200	$5,200	$826	$826	$826	$826	STD	$1,600
$3,822	$2,440	$3,554	$3,200	$5,200	$826	$826	$826	$826	STD	$1,600
$3,822	$2,440	$3,554	$3,200	$5,200	$826	$826	$826	$826	STD	$1,600
$3,822	$2,440	$3,554	$3,200	$5,200	$826	$826	$826	$826	STD	$1,600
$3,822	$2,440	$3,554	$3,200	$5,200	$826	$826	$826	$826	STD	$1,600
$3,822	$2,440	$3,554	$3,200	$5,200	$826	$826	$826	$826	STD	$1,600

600Vac Rating - Regenerative Cabinet Drives

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

UL Approved	CSA Approved	dU/dt Choke	E-Stop CAT 0	E-Stop CAT 1	Top Entry (13)	Top Exit (13)	Btm Entry (13)	Btm Exit (13)	Coated Boards	Safe Torque Off
+C129	**+C134**	**+E205(7)**	**+Q963**	**+Q964**	**+H351**	**+H353**	**+H350**	**+H352**	**+P901**	**+Q968**
$3,256	$1,946	$2,389	$3,200	$5,200	$826	$826	$826	$826	STD	$1,600
$3,256	$1,946	$2,389	$3,200	$5,200	$826	$826	$826	$826	STD	$1,600
$3,256	$1,946	$2,389	$3,200	$5,200	$826	$826	$826	$826	STD	$1,600
$3,256	$1,946	$3,054	$3,200	$5,200	$826	$826	$826	$826	STD	$1,600
$3,256	$1,946	$3,054	$3,200	$5,200	$826	$826	$826	$826	STD	$1,600
$3,822	$2,440	STD	$3,200	$5,200	$826	$826	$826	$826	STD	$1,600
$3,822	$2,440	STD	$3,200	$5,200	$826	$826	$826	$826	STD	$1,600
$3,822	$2,440	STD	$3,200	$5,200	$826	$826	$826	$826	STD	$1,600
$3,822	$2,440	STD	$3,200	$5,200	$826	$826	$826	$826	STD	$1,600
$3,822	$2,440	STD	$3,200	$5,200	$826	$826	$826	$826	STD	$1,600

240Vac Rating - Wall Mounted Low Harmonic Drives

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

DS-AR4	Type Code NEMA 1	I_{max} Amps	Nominal Ratings: Normal Duty (CT) (110% I_{2N}) I_{2N} Amps	Normal Duty P_N Hp	HeavyDuty (CT) (150% I_{2HD}) I_{2HD} Amps	HeavyDuty P_{HD} Hp	Frame Size	NEMA 1 List Price	EMC/RFI Filter 2nd Envir +E200	EMC/RFI Filter 1st Envir +E202
Wall Mounted Drives	ACS800-U31-0011-2	52	32	10	26	7.5	R5	**$9,344**	$825	$1,917
	ACS800-U31-0016-2	68	45	15	38	10	R5	**$11,845**	$825	$1,917
	ACS800-U31-0020-2	90	56	20	45	10	R5	**$12,988**	$825	$1,917
	ACS800-U31-0025-2	118	69	25	59	15	R5	**$15,843**	$825	$1,917
	ACS800-U31-0030-2	144	83	30	72	20	R5	**$18,978**	$825	$1,917
	ACS800-U31-0040-2	168	114	40	84	25	R6	**$20,844**	$1,253	$1,917
	ACS800-U31-0050-2	234	143	50	117	30	R6	**$24,554**	$1,253	$1,917
	ACS800-U31-0060-2	234	157	60	132	40	R6	**$28,553**	$1,253	$1,917

General and specifically identified notes are on page 21

480Vac Rating - Wall Mounted Low Harmonic Drives

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

DS-AR4	Type Code NEMA 1	I_{max} Amps	Nominal Ratings: Normal Duty (CT) (110% I_{2N}) I_{2N} Amps	Normal Duty P_N Hp	HeavyDuty (CT) (150% I_{2HD}) I_{2HD} Amps	HeavyDuty P_{HD} Hp	Frame Size	NEMA 1 List Price	EMC/RFI Filter 2nd Envir +E200	EMC/RFI Filter 1st Envir +E202
Wall Mounted Drives	ACS800-U31-0020-5	52	29	20	25	15	R5	**$9,718**	$825	$1,917
	ACS800-U31-0025-5	61	34	25	30	20	R5	**$10,989**	$825	$1,917
	ACS800-U31-0030-5	68	45	30	37	25	R5	**$12,207**	$825	$1,917
	ACS800-U31-0040-5	90	55	40	47	30	R5	**$13,807**	$825	$1,917
	ACS800-U31-0050-5	118	67	50	57	40	R5	**$15,750**	$825	$1,917
	ACS800-U31-0060-5	144	78	60	62	50	R5	**$19,532**	$825	$1,917
	ACS800-U31-0070-5	168	114	75	88	60	R6	**$21,960**	$1,253	$1,917
	ACS800-U31-0100-5	234	132	100	114	75	R6	**$25,709**	$1,253	$1,917
	ACS800-U31-0120-5	264	156	125	125	100	R6	**$29,732**	$1,253	$1,917

General and specifically identified notes are on page 21

600Vac Rating - Wall Mounted Low Harmonic Drives

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

DS-AR4	Type Code NEMA 1	I_{max} Amps	Nominal Ratings: Normal Duty (CT) (110% I_{2N}) I_{2N} Amps	Normal Duty P_N Hp	HeavyDuty (CT) (150% I_{2HD}) I_{2HD} Amps	HeavyDuty P_{HD} Hp	Frame Size	NEMA 1 List Price	EMC/RFI Filter 2nd Envir +E200	EMC/RFI Filter 1st Envir +E202
Wall Mounted Drives	ACS800-31-0060-7+H358	86	54	50	43	40	R6	**$18,650**	$1,253	$1,917
	ACS800-31-0070-7+H358	120	75	75	60	60	R6	**$22,127**	$1,253	$1,917
	ACS800-31-0100-7+H358	142	88	75	71	75	R6	**$24,977**	$1,253	$1,917

General and specifically identified notes are on page 21

240Vac Rating - Wall Mounted Low Harmonic Drives

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

US Gland Plate	Coated Boards	Safe Torque Off
+H358	**+P901**	**+Q967**
STD	STD	$830
STD	STD	$830
STD	STD	$830
STD	STD	$830
STD	STD	$830
STD	STD	$830
STD	STD	$830
STD	STD	$830

480Vac Rating - Wall Mounted Low Harmonic Drives

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

US Gland Plate	Coated Boards	Safe Torque Off
+H358	**+P901**	**+Q967**
STD	STD	$830
STD	STD	$830
STD	STD	$830
STD	STD	$830
STD	STD	$830
STD	STD	$830
STD	STD	$830
STD	STD	$830
STD	STD	$830

600Vac Rating - Wall Mounted Low Harmonic Drives

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

US Gland Plate	Coated Boards	Safe Torque Off
+H358	**+P901**	**+Q967**
INCL	STD	$830
INCL	STD	$830
INCL	STD	$830

480Vac Rating - Low Harmonic Cabinet Drives

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

DS-CAB	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	Frame Size	NEMA 1 List Price	NEMA 1 Filtered UL Type 1 (IP42) +B054	UL type12 (IP54) +B055
Cabinet Drives	ACS800-37-0070-5	168	114	75	88	60	R6	**$26,666**	$1,500	$3,500
	ACS800-37-0100-5	234	132	100	114	75	R6	**$29,440**	$1,500	$3,500
	ACS800-37-0120-5	264	156	125	125	100	R6	**$34,666**	$1,500	$3,500
	ACS800-37-0170-5	291	192	150	156	125	R7i	**$37,447**	$1,500	$4,100
	ACS800-37-0210-5	355	240	200	183	150	R7i	**$44,750**	$1,500	$4,100
	ACS800-37-0260-5	438	302	250	226	150	R8i	**$55,005**	$2,150	$6,600
	ACS800-37-0320-5	530	361	300	273	200	R8i	**$62,024**	$2,150	$6,600
	ACS800-37-0400-5	660	437	350	340	250	R8i	**$76,270**	$2,150	$6,600
	ACS800-37-0460-5	762	504	400	393	300	R8i	**$88,297**	$2,150	$6,600
	ACS800-37-0510-5	863	571	450	445	350	R8i	**$104,439**	$2,150	$6,600
	ACS800-37-0610-5	1016	672	550	524	400	R8i	**$122,330**	$2,150	$6,600

General and specifically identified notes are on page 21

600Vac Rating - Low Harmonic Cabinet Drives

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

DS-CAB	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	Frame Size	NEMA 1 List Price	NEMA 1 Filtered UL Type 1 (IP42) +B054	UL type12 (IP54) +B055
Cabinet Drives	ACS800-37-0060-7	86	54	50	43	40	R6	**$25,556**	$1,500	$3,500
	ACS800-37-0070-7	120	75	75	60	60	R6	**$30,256**	$1,500	$3,500
	ACS800-37-0100-7	142	88	75	71	75	R6	**$32,888**	$1,500	$3,500
	ACS800-37-0170-7	202	133	125	104	100	R7i	**$37,500**	$1,500	$4,100
	ACS800-37-0210-7	235	156	150	121	100	R7i	**$47,030**	$1,500	$4,100
	ACS800-37-0260-7	301	193	200	150	150	R8i	**$55,827**	$2,150	$6,600
	ACS800-37-0320-7	417	268	250	209	200	R8i	**$67,646**	$2,150	$6,600
	ACS800-37-0400-7	502	322	300	251	250	R8i	**$70,804**	$2,150	$6,600
	ACS800-37-0440-7	571	367	350	286	300	R8i	**$78,077**	$2,150	$6,600
	ACS800-37-0540-7	668	429	450	334	350	R8i	**$97,287**	$2,150	$6,600

General and specifically identified notes are on page 21

480Vac Rating - Low Harmonic Cabinet Drives

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

UL Approved	CSA Approved	Brake Chopper	dU/dt Choke	E-Stop CAT 0	E-Stop CAT 1	Top Entry (13)	Top Exit (13)	Btm Entry (13)	Btm Exit (13)	Coated Boards	Safe Torque Off
+C129	**+C134**	**+D150**	**+E205(7)**	**+Q963**	**+Q964**	**+H351**	**+H353**	**+H350**	**+H352**	**+P901**	**+Q968**
$3,256	$1,946	$8,200	$2,389	$3,200	$5,200	$826	$826	$826	$826	STD	$1,600
$3,256	$1,946	$8,200	$2,389	$3,200	$5,200	$826	$826	$826	$826	STD	$1,600
$3,256	$1,946	$8,200	$2,389	$3,200	$5,200	$826	$826	$826	$826	STD	$1,600
$3,256	$1,946	$8,200	$3,054	$3,200	$5,200	$826	$826	$826	$826	STD	$1,600
$3,256	$1,946	$8,200	$3,054	$3,200	$5,200	$826	$826	$826	$826	STD	$1,600
$3,822	$2,440	$8,700	$3,554	$3,200	$5,200	$826	$826	$826	$826	STD	$1,600
$3,822	$2,440	$8,700	$3,554	$3,200	$5,200	$826	$826	$826	$826	STD	$1,600
$3,822	$2,440	$8,700	$3,554	$3,200	$5,200	$826	$826	$826	$826	STD	$1,600
$3,822	$2,440	$8,700	$3,554	$3,200	$5,200	$826	$826	$826	$826	STD	$1,600
$3,822	$2,440	$8,700	$3,554	$3,200	$5,200	$826	$826	$826	$826	STD	$1,600
$3,822	$2,440	$8,700	$3,554	$3,200	$5,200	$826	$826	$826	$826	STD	$1,600

600Vac Rating - Low Harmonic Cabinet Drives

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

UL Approved	CSA Approved	Brake Chopper	dU/dt Choke	E-Stop CAT 0	E-Stop CAT 1	Top Entry (13)	Top Exit (13)	Btm Entry (13)	Btm Exit (13)	Coated Boards	Safe Torque Off
+C129	**+C134**	**+D150**	**+E205(7)**	**+Q963**	**+Q964**	**+H351**	**+H353**	**+H350**	**+H352**	**+P901**	**+Q968**
$3,256	$1,946	$8,200	$2,389	$3,200	$5,200	$826	$826	$826	$826	STD	$1,600
$3,256	$1,946	$8,200	$2,389	$3,200	$5,200	$826	$826	$826	$826	STD	$1,600
$3,256	$1,946	$8,200	$2,389	$3,200	$5,200	$826	$826	$826	$826	STD	$1,600
$3,256	$1,946	$8,200	$3,054	$3,200	$5,200	$826	$826	$826	$826	STD	$1,600
$3,256	$1,946	$8,200	$3,054	$3,200	$5,200	$826	$826	$826	$826	STD	$1,600
$3,822	$2,440	$8,700	STD	$3,200	$5,200	$826	$826	$826	$826	STD	$1,600
$3,822	$2,440	$8,700	STD	$3,200	$5,200	$826	$826	$826	$826	STD	$1,600
$3,822	$2,440	$8,700	STD	$3,200	$5,200	$826	$826	$826	$826	STD	$1,600
$3,822	$2,440	$8,700	STD	$3,200	$5,200	$826	$826	$826	$826	STD	$1,600
$3,822	$2,440	$8,700	STD	$3,200	$5,200	$826	$826	$826	$826	STD	$1,600

Input / Output Options

DS-OPT

Name	Description	Field Kit Code	Plus Code	List Price
Analog I/O Extension Module	The Analog I/O Extension module offers two unipolar current (0[4]…20 mA) or bipolar voltage (±0[2]…10 V or ±0…2 V) inputs and two unipolar current (0[4]-20 mA) outputs. Analog unipolar inputs are 12 bit. Bipolar inputs are 11 bit. Analog outputs are 12 bit. The analog inputs & outputs are galvanically isolated as a group, from each other & the power supply. This option uses 120 mA of the available 250 mA power supply.	RAIO-01-KIT	+L500	**$1,068**
Digital I/O Extension Module	The Digital I/O Extension module offers three digital inputs (24…250 Vdc or 110…230 Vac) and two relay outputs (1250 VA/250 Vac or 5 A/24 Vdc). The isolation voltage between the digital inputs, digital outputs and power supply is 2.5 kV (1.5 kV between DI2 and DI3). This option uses 30 mA of the available 250 mA power supply.	RDIO-01-KIT	+L501	**$876**
Pulse Encoder Interface	The Pulse Encoder Interface module offers a differential or single ended interface for a digital pulse encoder. The module is capable of operating from either a 15 or 24Vdc signal with a max frequency of 200kHz. This option uses 55 mA of the available 250 mA power supply. When the drive's internal power supply is used to power the encoder, additional options may not be installed. Check the encoder's power supply requirements prior to installation.	RTAC-01-KIT	+L502	**$984**
Pulse Encoder Interface	TTL incremental Pulse Encoder Interface module for use with Positioning App SW only. The module is capable of operating at 24Vdc signal with a max frequency of 200kHz. This option uses 55 mA of the available 250 mA power supply.	RTAC-03-KIT	+L517	**$984**
Resolver Interface * Limited Application SW Supported Check with factory	The Resolver Interface module offers interface for an analog resolver connection. A resolver may be used to obtain accurate speed and position (angle) feedback from a motor shaft. Application software supporting the Resolver interface; Positioning Control Permanent Magnet Synchronous Machine	RRIA-01-KIT	+L516	**$984**
115/230Vac Digital Input Interface	The 115/230V Digital Input Interface module offers six (6) 115V or three (3) 230V rated circuits mounted on a common board used to drive DI1 through DI6 of the ACS800. The 115/230V and interconnection wiring must be provided by the user.	OHDI-01-KIT	NA	**$489**
I/O Extension Adapter * Requires DDCS Communications	The I/O extension adapter adds support for 3 additional (R) type adapters for the ACS800. This module is mounted by the user external to ACS800-U1/U2/U4 type drives. It can be selected as a factory installed option for internal mountinmg inside ACS800-U7/07 product.	AIMA-01-KIT	NA	**$1,100**
DDCS Communications Coated Board	The RDCO-03 module includes the connectors for fiber optic DDCS channels CH0, CH1, CH2 and CH3. The usage of these channels is determined by the application but are normally assigned to the following: CH0 – overriding system (e.g. fieldbus adapter) - 5 MBd CH1 – I/O extensions - 5MBd CH2 – Master/Follower link - 5 MBd CH3 – PC tools (such as DriveWare) - 5 MBd	RDCO-03C-KIT	+L503	**$273**
DDCS Communications Coated Board	The RDCO-02 module includes the connectors for fiber optic DDCS channels CH0, CH1, CH2 and CH3. The usage of these channels is determined by the application but are normally assigned to the following: CH0 – overriding system (e.g. fieldbus adapter) - 5 MBd CH1 – I/O extensions - 5MBd CH2 – Master/Follower link - 10 MBd CH3 – PC tools (such as DriveWare) - 10 MBd	RDCO-02C-KIT	+L509	**$525**
DDCS Communications Coated Board	The RDCO-01 module includes the connectors for fiber optic DDCS channels CH0, CH1, CH2 and CH3. The usage of these channels is determined by the application but are normally assigned to the following: CH0 – overriding system (e.g. fieldbus adapter) - 10 MBd CH1 – I/O extensions - 5MBd CH2 – Master/Follower link - 10 MBd CH3 – PC tools (such as DriveWare) - 10 MBd	RDCO-01C-KIT	+L508	**$525**

NOTE: A maximum of 2 I/O or FieldBus options are allowed. If additional options are required, the AIMA-01 extension adapter is required.

FieldBus Communication Options

DS-OPT

Name	Description	Field Kit Code	Plus Code	List Price
DeviceNet Adapter	The DeviceNet network uses a linear bus topology. Terminating resistors are required on each end of the trunk line. Drop lines as long as 6 meters (20 feet) each are permitted, allowing one or more nodes to be attached. DeviceNet allows branching structures only on drop lines.	RDNA-01-KIT	+K451	***$680***
ProfiBus-DP Adapter	ProfiBus is an open serial communication standard that enables data exchange between automation components. The transmission medium of the bus is a twisted pair cable (according to RS-485 standard). The maximum length of the bus cable is 100 to 1200 meters, depending on the transmission rate. Up to 31 stations can be connected to the same PROFIBUS system without use of repeaters.	RPBA-01-KIT	+K454	**$862**
ModBus Adapter	ModBus is a serial, asynchronous protocol. The ModBus protocol does not specify the physical interface. Typical physical interfaces are RS-232 and RS-485. The RMBA-01 provides a galvanically isolated RS-485 interface. ModBus is designed for integration with Modicon PLCs or other automation devices, and the services closely correspond to the PLC architecture. The RMBA-01 supports the RTU protocol only.	RMBA-01-KIT	+K458	**$759**
ControlNet Adapter	The ControlNet network uses a RG-6 quad shielded cable or fiber with support for media redundancy. The RCNA-01 Adapter module supports only RG-6 quad shielded cable (coax) for the bus connection. ControlNet is flexible in topology options (bus, tree, star) to meet various application needs. The fieldbus speed is 5 Mbits/s. The RCNA-01 ControlNet Adapter module can not originate connections on its own, but a scanner node can open a connection towards it. The ControlNet protocol is implemented according to the ControlNet international specification for a Communication adapter.	RCNA-01-KIT	+K462	***$860***
EtherNet Adapter ** New offering, check with factory for availability*	The RETA-01 module supports the Modbus/TCP and EtherNet/IP network protocols. Modbus/TCP is a variant of the Modbus family of simple, vendor neutral communication protocols intended for supervision and control of automation equipment. EtherNet/IP is based on the Common Industrial Protocol (CIP), which is also the framework for both the ControlNet and DeviceNet networks. The RETA-01 supports 10/100 Mbps transfer rate with network connection made with standard RJ-45 connector.	RETA-01-KIT	+K466	***$790***
EtherNet Adapter	The RETA-02 module supports both Modbus/TCP and PROFINET IO network protocols. Modbus/TCP is a variant of the Modbus family of simple, vendor neutral communication protocols intended for supervision and control of automation equipment. PROFINET IO is a open standard for industrial ethernet, intended for configuration, supervision and control of automation equipment. The RETA-02 supports 10/100 Mbps transfer rate with network connections made with CAT 5 wiring and RJ-45 connectors. Both star and bus topology options are supported.	RETA-02-KIT	+K467	***$790***
CANopen Adapter	The RCAN-01 CANopen Adapter Module enables the connection of the ABB drive to a CANopen system. CANopen is a higher level protocol based on the CAN (Control Area Network) serial bus system and the CAL (CAN Application Layer). The RCAN-01 fulfills CiA (CAN in Automation) standard DSP-402 (Drives and Motion Control), supporting the “Manufacturer Specific” operating mode only. The physical medium of CANopen is a differentially driven two-wire bus line with common return according to ISO 11989. The RCAN-01 supports baud rates from 10 kbit/s to 1 Mbit/s. The module provides DIP-switches for selection of the node number and baud rate. The node number and baud rate can alternatively be set via the control panel of the drive.	RCAN-01-KIT	NA	**$759**

FieldBus Communication Options (continued)

DS-OPT

Name	Description	Field Kit Code	Plus Code	List Price
EtherNet Enhanced Adapter * Requires DDCS Communication	The NETA-01 Ethernet Adapter module is an optional device for browser-based remote monitoring of ABB drives via Ethernet. Multiple drives (up to 9) can be connected to the network through the DDCS Branching Unit (NDBU-85/95) or using ring topology with the NETA-01 Ethernet Adapter module.	NETA-01-KIT	NA	**$2,200**
Ethernet Adapter Gateway	SREA-01 is an optional device for web browser based remote interface to the ACS350, ACS550 and ACS800 drives ethernet. The din rail mounted adapter enables remote data aquisition through a standard web brouser, utilising an internal web server for drive configuration and access. Multiple drives (up to 10) can be connected to the Modbus -RTU network through the drive's Modbus-RTU port. The ACS350 and ACS550 can also be connected through the control panel port, although and additional RS-485 converter is needed for ea	SREA-01-KIT	NA	**$1,750**

NOTE: Nxxx type option modules cannot be factory installed, must be ordered separately and field installed.

Special Application Software

DS-OPT

Name	Description	Field Kit Code	Plus Code	List Price
Pump Control	The inteligent pump control software incorporates all functions commonly required for multi-pump coordination and eliminates the need for an external PLC.	NA	+N687	**$465**
Crane Control ** Requires app review & Crane Drive certification*	The software is designed to provide safety and control for the cranes and hoist industry. Features include torque proving and brake control; power optimization for higher speeds improved cycle times; synchronized dual hoists; inputs for end of travel and slow down; slack rope detection. Note: an encoder is required for all hoisting applications.	NA	+N697	**CF**
Spinning Control	The Spinning Control application program is designed to run spinning bobbins in ring frame textile machines. To achieve the best possible form for the doff, the spinning sequence should be ideal for a traverse of the yarn. This is done by giving preset values for speed based on time elapsed. In addition to the base Speed/Time Pattern function, there are three selectable functions: • the Shift function multiplies the speeds defined for the Speed/Time Pattern • the Wobbulation function keeps the yarn tension below the breaking limit by wobbling the spinning speed • the Manual Doff function to make controlled end for doffing before the Speed Time Pattern is finished	NA	+N654	**$1,162**
Progressive Cavity Pump (PCP) ** Requires app review & Industrial Sales approval*	Software to provide protection and optimization for Progressive Cavity Pumps and Electrical Submersible Pumps for the Oil and Gas industry. The software is designed to protect the pump rods from over torque situation during adverse conditions and provides safe shutdown through controlled backspin. It also provides for input from external sensors for further protection and returns feedback in pump terminology (rod speed and torque etc..).	NA	+N655	**$1,700**
Inline Control * for process line applications	The Inline Control application software is designed for process line Draw / Dancer / Tension control. An inline section on a process line is a section controlling the web in the machine after an extruder or unwind and before the winder or sheeter.	NA	+N660	**$890**
Center Winder/Unwind ** Requires app review & Industrial Sales approval*	The Center Winder/Unwind software is designed for process lines. The program supports tension control of a web using Dancer trim, Tension trim, or torque control. Included are a diameter calculator, tension regulators, inertia compensation, and roll change logic for continuous process lines. (Application training required)	NA	+N661	**$2,242**
Traverse Control	Traverse drives are used in textile machines to guide yarn into a yarn package. • To get even winding for the yarn, the drive decreases/increases the speed smoothly depending on the package form and the movement direction of the yarn guide. • To avoid layering at the reversal points of the yarn guide, the drive performs an instantaneous speed change i.e. “P-Jump	NA	+N668	**$890**
Centrifuge Control * Decanter control requires DDCS communication & Fiber Optic cables	The Centrifuge Application is designed for simple single motor batch centrifuge and also for coordinating the bowl and scroll motors on a horizontal decanter style centrifuge. For Decanter Centrifuge operation, each drive will require RDCO-0x boards and fiber optic cables for the connection.	NA	+N669	**$890**
Injection Molding	The injection molding software has 16 preset speeds with process oriented texts that are preprogrammed into 11 separate mold configurations (recipes). Through the use of four digital inputs, these % speed references are commanded to the drive. The individual mold recipes are selected via parameter. A kW demand display has been added to ease the calculation of consumed power. The Injection Molding software also has the ability to handle multiple motor machines utilizing Master/Follower via fiber optics.	NA	+N657	**$465**

Special Application Software - *Continued*

DS-OPT

Name	Description	Field Kit Code	Plus Code	List Price
Rod Pump Light ** Requires app review & Industrial Sales approval*	Software to provide protection and optimization of oil and gas industry standard rod pumps including Mark II designs. Standard features include on/off control with adjustable well refill time, two speed control for optimal up and down stroke speeds and the ability to connect to external sensors. With a proximity switch connected to the pump, the drive's POC (Pump on control) can optimize the well's production by maintaining an optimal fluid level in the well.	NA	+N675	**$1,700**
Permanent Magnet Synchronous Motor ** Requires app review*	The Permenent Magnet software is for applications using Permanent Magnet Synchronous Motor. The software offers the same features as the standard software package with specially modified motor control for PM motors.	NA	+N679	**$880**
Position Control * Requires app review & Industrial Sales approval	The Positioning Control software incorporates accurate positioning, synchronization, and DTC performance for position control applications. This software is designed to be an optimal solution to replace systems that implement sensors and PLC's as the main control for positioning systems.	NA	+N685	**CF**
System Application Software ** Requires Industrial Sales approval*	The System Application Software is the "Standard" software included with the multi-drive system products. This software can be used when installing stand-alone drives with system multi-drives. It is designed for usage with over-riding controllers and does not include many of the features included in stand-alone drive standard software	NA	+N671	**$465**

Control Panel & Panel Accessories

DS-OPT

Name	Description	Field Kit Code	Plus Code	List Price
Control Panel	ACS800 control panel	CDP312R	NA	**$413**
Control panel cable	Screened control panel cable for RMIO to Panel, 0.5m	RPLC-00C	NA	**$100**
Control panel cable	Screened control panel cable for RMIO to Panel, 2.0m	RPLC-02C	NA	**$110**
Control panel cable	Screened control panel cable for RMIO to Panel, 3.0m	RPLC-03C	NA	**$120**
Control panel cable	Screened control panel cable (RJ11 to RJ11), 3.0m	NPLC-03C	NA	**$120**
Cabinet Panel Mounting	Panel mounting platform for CDP312R is NEMA 12 rated and includes the 3 meter cable. The CDP-312R panel must be purchased separately. Maximum door panel thickness 14ga (2.5mm)	RPMP-11	NA	**$413**
Cabinet Panel Mounting	Panel mounting platform for CDP312R is NEMA 12 rated, includes 3 meter cable, and CDP312R control panel. Maximum door panel thickness 14ga (2.5mm)	RPMP-13	NA	**$826**
Control Panel Mounting	Legacy Panel mounting platform for the CDP-312R, includes 3 meter cable. This panel mounting is larger than the RPMP-11. It includes screw mounting for larger gauge steel panels and NEMA 12 rated gasket. The CDP-312R panel must be purchased separately.	NPMP-01-KIT	NA	**$750**

Fiber Optic cables and Branching units

DS-OPT

Name	Description	Field Kit Code	Plus Code	List Price
Branching Unit	Star connection branching unit with nine (9) output connections. Eight (8) connections rated for 5Mb, one (1) rated for 10Mb. Coated Board	NDBU-85C	NA	**$2,110**
Branching Unit	Star connection branching unit with none (9) output connections. Nine (9) output connections rated for 10Mb. Coated Board	NDBU-95C	NA	**$2,556**
Fiber Optic Converter / Repeater	The NOCR (optical converter and repeater) converts between different types of optical cable. The NOCR can convert plastic fiber optic to glass fiber optic (GOF) or hard clad silica (HCS) and back to plastic. The NOCR can be used as a repeater for long distance (up to 1200m) transmission using GOF or HCS for long distance link.	NOCR-01	NA	**$4,650**
Fiber Optic cable	Single plastic fiber optic, Qty2, 2 meter long	NLWC-02-KIT	NA	**$155**
Fiber Optic cable	Single plastic fiber optic, Qty2, 3 meter long	NLWC-03-KIT	NA	**$190**
Fiber Optic cable	Single plastic fiber optic, Qty2, 5 meter long	NLWC-05-KIT	NA	**$230**
Fiber Optic cable	Single plastic fiber optic, Qty2, 7 meter long	NLWC-07-KIT	NA	**$265**
Fiber Optic cable	Single plastic fiber optic, Qty2, 10 meter long	NLWC-10-KIT	NA	**$345**
Fiber Optic cable	Double plastic fiber optic, Qty1, 0.5 meter long	PN - 61059130	NA	**$230**
Fiber Optic cable	Double plastic fiber optic, Qty1, 2 meter long	PN - 61059121	NA	**$280**
Fiber Optic cable	Double plastic fiber optic, Qty1, 5 meter long	PN - 61059113	NA	**$395**
Fiber Optic cable	Double plastic fiber optic, Qty1, 10 meter long	PN - 61046534	NA	**$475**

External Braking Choppers

DS-OPT

Name	Description	Field Kit Code	Plus Code	List Price
External 230-500Vac Braking Chopper	Externally mounted braking chopper 230 / 400 / 500Vac Enclosure = IP54 Brake Power Max = 18.5kW Not UL listed	NBRA-653C	NA	**$1,136**
External 230-500Vac Braking Chopper	Externally mounted braking chopper 230 / 400 / 500Vac Enclosure = IP00 Brake Power Max = 268kW Not UL listed	NBRA-658C	NA	**$4,400**
External 230-500Vac Braking Chopper	Externally mounted braking chopper 230 / 400 / 500Vac Enclosure = IP00 Brake Power Max = 403kW Not UL listed	NBRA-659C	NA	**$5,600**
External 600Vac Braking Chopper	Externally mounted braking chopper 600Vac Enclosure = IP54 Brake Power Max = 19.8kW Not UL listed	NBRA-663C	NA	**$1,350**
External 600Vac Braking Chopper	Externally mounted braking chopper 600Vac Enclosure = IP00 Brake Power Max = 404kW Not UL listed	NBRA-669C	NA	**$6,600**

NOTE: DC Bus connection is not currently available on the 02 drive product. External brake choppers cannot be connected.

Driveware options

DS-OPT

Name	Description	Field Kit Code	Plus Code	List Price
DriveWindow with Hardware PCMCIA	DriveWindow is a software designed for online drive commissioning and maintenance purposes. Connection to the drive is through a PCMCIA card and high speed fiber optic cable. Drive requires an optional RDCO-0x card to support the fiber optic connection. DriveWindow supports Microsoft Windows operating systems (Windows NT4, 2000, & XP). • Parameter editing and monitoring • Upload/download drive parameter files, save and copy • Compare files • Trending up to six (6) signals • Drive Control for commissioning and test Includes, DriveWindow install CD and PCMCIA connection kit (PCMCIA card, fiber optic connector, & fiber optic cable 10meters)	3AFE64547992	NA	**$3,500**
DriveWindow with Hardware USB	DriveWindow is a software designed for online drive commissioning and maintenance purposes. Connection to the drive is through a USB Port and high speed fiber optic cable. Drive requires an optional RDCO-0x card to support the fiber optic connection. DriveWindow supports Microsoft Windows operating systems (Windows 2000, XP, Vista). • Parameter editing and monitoring • Upload/download drive parameter files, save and copy • Compare files • Trending up to six (6) signals • Drive Control for commissioning and test Includes, DriveWindow install CD and USB connection kit (USB to fiber optic adapter, & fiber optic cable 10meters)	3AUA0000040000	NA	**$3,500**
DriveWindow without Hardware	DriveWindow install CD (upgrade) Hardware is not included.	3AFE64547968	NA	**$1,200**
PCI adapter card for PCMCIA card	PCI socket adapter card for support of PCMCIA card in desktop PC	3AFE64510304	NA	**$830**
DriveWindow Light without Hardware for ACS800	A reduced version of ABB's full DriveWindow package. DriveWindow Light communicates via an RS232 to RS485 adapter, using a serial connection through the panel port. DriveWindow Light supports Microsoft Windows operating systems (Windows NT4, 2000, & XP). • Upload/download drive parameter files, save and copy • Compare files • Trending (on a limited basis) • Drive Control (Start, Stop, Speed Ref) **Hardware for ACS800 must be ordered separately**	3AFE64532871	NA	**$850**
DriveWindow Light Hardware for ACS800	Hardware for ACS800 connection to PC for DriveWindow Light.	NPCU-01 FLD OPT	NA	**$300**
Drive AP with Hardware	Drive AP is the software programming package for utilizing the 15 programmable blocks included with standard drive firmware. This is a graphical programming tool for the adaptive programming feature. Drive AP supports Microsoft Windows operating systems (Windows NT4, 2000, & XP). This package includes the PCMCIA connection kit for connectivity to the ACS800. This is the same hardware included with DriveWindow. If you already have the hardware for DriveWindow, you may choose the option for Drive AP without Hardware.	3AFE64554476	NA	**$2,500**
Drive AP without Hardware	Drive AP install CD, Hardware is not included.	3AFE64554468	NA	**$800**

Driveware options (continued)

DS-OPT

Name	Description	Field Kit Code	Plus Code	List Price
DriveBrowser	DriveBrowser software is designed for online drive commissioning and maintenance purposes. DriveBrowser uses a computer's standard Ethernet port to connect to an EtherNet/IP or Modbus-TCP network. It is compatible with the ACS350, ACS550, ACH550 and ACS800* drives (*ACS800 standard control program). Drives require configuration and connection to an EtherNet/IP or Modbus-TCP network. DriveBrowser supports Microsoft Windows operating systems (Windows NT4, 2000, XP & Vista). • Configure network connections • Parameter editing and monitoring • Upload/download drive parameter files, save, print • Compare files • Trending up to four signals • Drive Control for commissioning and test **Consult ABB for availability**	3AUA0000041141	NA	**$650**

Flange Mounting Kits

DS-OPT

Name	Description	Field Kit Code	Plus Code	List Price
Flange Mounting Kit Frame R2	Flange mounting kit for installation on the ACS800-04 module. The flange mounting kits include all hardware that is required to add a drive mountable flange to the ACS800-44 module drives including assemble instructions and drawings. This will allow the user to mount he drive module to a panel or cabinet wall and extend the power structure of the drive to outside of the enclosure. This will move most of the heat loss from the drive to outside of the enclosure, thus reducing the cooling requirements inside the enclosure. These kits provide a NEMA 12 seal between the outside of the enclosure and the drive frame. * Flange mounting for frames R7 & R8 is not possible	AC8-FLNGMT-R2	+C135	**$410**
Flange Mounting Kit Frame R3		AC8-FLNGMT-R3	+C135	**$410**
Flange Mounting Kit Frame R4		AC8-FLNGMT-R4	+C135	**$500**
Flange Mounting Kit Frame R5		AC8-FLNGMT-R5	+C135	**$565**
Flange Mounting Kit Frame R6		AC8-FLNGMT-R6	+C135	**$825**
Flange Mounting Kit 11/U11/31/U31 Frame R5	Flange mounting kit for installation on the ACS800-x11/x31 Frame R5 Drives. See detailed description above.	68654122	NA	**$825**
Flange Mounting Kit 11/U11/31/U31 Frame R6	Flange mounting kit for installation on the ACS800-x11/x31 Frame R6 Drives. See detailed description above.	68654131	NA	**$1,051**

Miscellaneous

DS-OPT

Name	Description	Field Kit Code	Plus Code	List Price
ACS800 Demo Case	Powered by 115VAC the ACS800 Democase includes an ACS800 R2 drive mounted on a panel. Included is a motor with brake and an I/O board. Also included are a RAIO-01, RDIO-01 and RDCO-03 mounted internally to the drive. Fiber optic ports are provided for connection to DriveWindow or external options.	ACS800-DEMOCASE	NA	
Common Mode Filter kit	Common Mode filters for control of radiated & conducted emission on output of AC Drives. Kits contains 3 rings and installation instructions.	64315811	NA	$1,260

ACS800-U1 Type Code Sheet — 1 - 200 HP, Wall Mounted

A	C	S	8	0	0	-	U	1

U1 = Wall mounted (USA), UL type1 (IP21), With control panel CDP312R, No EMC filter, Standard software (US), Cable conduit entry, Braking chopper in frame sizes R2, R3 and R4 (only 600V), Boards without coating, One set of default language documents

Option codes

I/O options

2 slots available for I/O options or Fieldbus adapters

☐	L500	Analogue I/O extension	RAIO-01
☐	L501	Digital I/O extension	RDIO-01
☐	L502	Pulse encoder interface	RTAC-01
☐	L516	Resolver interface	RRIA-01
☐	L517	Pulse encoder interface TTL	RTAC-03
☐	L503	DDCS Communication 3	RDCO-03
☐	L509	DDCS Communication 2	RDCO-02
☐	L508	DDCS Communication 1	RDCO-01

L516 available only with Motion control and PMSM application softwares
L517 available only with standard application program and N651, N652, N654, N668, N677, N685, N697 and N698 programs

Fieldbus

☐	K451	DeviceNet adapter	RDNA-01
☐	K452	LONWorks adapter	RLON-01
☐	K454	Profibus-DP adapter	RPBA-01
☐	K457	CANOpen adapter	RCAN-01
☐	K458	Modbus adapter	RMBA-01
☐	K462	ControlNet adapter	RCNA-01
☐	K466	Ethernet adapter(EIP,MB/TCP)	RETA-01
☐	K467	Ethernet adapter(Profinet IO, MB/TCP)	RETA-02

1 or 2 Digital extensions
1or 2 Analogue extensions, one for I/O, the other only for motor temp. measurement
Communication board has always one dedicated slot.
Modbus adapter can be used with other Fieldbus adapter

Program

☐	N687	Pump control	
☐	N651	Master/follower control	
☐	N652	Crane drive control	
☐	N653	Application base control	
☐	N654	Spinning control	*)
☐	N655	PCP and ESP control	
☐	N660	Inline control	
☐	N661	Winder control	
☐	N668	Traverse control	*)
☐	N669	Centrifuge control	
☐	N671	System control	
☐	N675	Rod pump control	
☐	N677	PMSM control - system interface (for low speed-high torque motors)	*)
☐	N679	PMSM control - standard interface (for low speed-high torque motors)	*)
☐	N682	Multiblock control	
☐	N685	Motion control	
☐	N697	Crane control	
☐	N698	Winch control	

Master follower includes optic fibres, requires DDCS communication (add L503, L509 or L508 to code)

Available only for Drives Engineering Centers

Decanter control requires DDCS communication + optic fibres

Software compatibility with different option modules must be checked from ACS800 software compatibility document (doc no. 3AFE64638211) in ABB Library

*) Not available for -0105-5, -0205-5, -0145-7, -0175-7 and -0205-7

ACS800-U1 Type Code Sheet — 1 - 200 HP, Wall Mounted

Control panel

☐	0J400	No control panel	

Protection class

☐	B056	IP55 (UL type 12)	

Construction

☐	C131	Vibration dampers	*Only for R4, R5 and R6, not available with UL type 12 (B056)*
☐	C132	Marine Drive	Coated boards included. Requires Vibration dampers (C131) which are not needed, if installed in a cabinet. Type approval of classicication socities. Only

Filters

☐	E200	EMC/RFI-filter, Cat. C3, 2nd Env., Earthed Network, frames R2 - R5 only	
☐	E210	EMC/RFI-filter, Cat. C3, 2nd Env., Earthed/Unearthed Network, frame R6 only	
☐	E202	EMC/RFI-filter, Cat. C2, 1st Env., Earthed Network	E202 not available for 690V units

Resistor braking

☐	D150	Braking chopper	Included as standard in frame sizes R2 , R3 and 690V (600V) frame R4

Cabling

☐	H357	Cable lead through entry (European)	

Safety features

☐	Q967	Safe Torque Off	Separate gate driver power supply board (ASTO) IP20 and connection wire included in the converter package. Does not include e.g. safety relay.

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*

Specialities

☐	P901	Coated boards	*Not applicable with C132*
☐	P904	Extended warranty	

ACS800-02 Type Code Sheet

90 - 500 kW, Free standing

A	C	S	8	0	0	-	0	2

02 = Free standing, 6 pulse diode bridge, IP21 (UL type 1), With control panel CDP312R, No EMC filter, Standard software, Bottom entry and exit of cables, Cable lead through entry, Boards without coating, One set of default language documents

Option codes

I/O options

2 slots available for I/O options or Fieldbus adapters

☐	L500	Analogue I/O extension	RAIO-01
☐	L501	Digital I/O extension	RDIO-01
☐	L502	Pulse encoder interface	RTAC-01
☐	L516	Resolver interface	RRIA-01
☐	L517	Pulse encoder interface TTL	RTAC-03
☐	L503	DDCS Communication 3	RDCO-03
☐	L509	DDCS Communication 2	RDCO-02
☐	L508	DDCS Communication 1	RDCO-01
☐	L504	Additional I/O-Terminal Block (Requires Enclosure extension)	
☐	L505	Thermistor Relay (1 or 2 pcs, Requires Enclosure extension, not with L506)	
☐	L506	Pt100 Relay (3pcs, Requires Enclosure extension, not with L505)	

L516 available only with Motion control and PMSM application softwares
L517 available only with standard application program and N651, N652, N654, N668, N677, N685, N697 and N698 programs

Fieldbus

2 slots available for I/O options or Fieldbus adapters

☐	K451	DeviceNet adapter	RDNA-01
☐	K452	LONWorks adapter	RLON-01
☐	K454	Profibus-DP adapter	RPBA-01
☐	K457	CANOpen adapter	RCAN-01
☐	K458	Modbus adapter	RMBA-01
☐	K462	ControlNet adapter	RCNA-01
☐	K466	Ethernet adapter(EIP,MB/TCP)	RETA-01
☐	K467	Ethernet adapter(Profinet IO, MB/TCP)	RETA-02

1 or 2 Digital extensions
1or 2 Analogue extensions, one for I/O, the other only for motor temp. measurement
Communication board has always one dedicated slot.
Modbus adapter can be used with other Fieldbus adapter

Program

☐	N687	Pump control	
☐	N651	Master/follower control	
☐	N652	Crane drive control	
☐	N653	Application base control	
☐	N654	Spinning control	
☐	N655	PCP and ESP control	
☐	N660	Inline control	
☐	N661	Winder control	
☐	N668	Traverse control	
☐	N669	Centrifuge control	
☐	N671	System control	
☐	N675	Rod pump control	
☐	N677	PMSM control - system interface (for low speed-high torque motors)	
☐	N679	PMSM control - standard interface (for low speed-high torque motors)	
☐	N682	Multiblock control	

Master follower includes optic fibres, requires DDCS communication (add L503, L509 or L508 to code)

Available only for Drives Engineering Centers

Decanter Control requires DDCS communication + optic fibres

ACS800-02 Type Code Sheet 90 - 500 kW, Free standing

Program (cont')

☐	N697	Crane control
☐	N698	Winch control

Software compatibility with different option modules must be checked from ACS800 software compatibility document (doc no. 3AFE64638211) in ABB Library

Control panel

☐	0J400	No control panel

Filters

☐	E210	EMC/RFI-filter, Cat. C3, 2nd Env., Earthed/Unearthed Network
☐	E202	EMC/RFI-filter, Cat. C2, 1st Env., Earthed Network
☐	E208	Common mode filter

E202 not available for 690V units neither for R8 frame size units without enclosure extension

Resistor braking

☐	D150	Braking chopper

Documentation language

See ACS800-U1 for details

Specialities

☐	P901	Coated boards
☐	P904	Extended warranty

ACS800-04 Type Code Sheet

1 - 200 kW, Drive module

A	C	S	8	0	0	-	0	4

04 = Module, IP20 (UL Open type),No control panel, No EMC filter, Standard application software, Braking chopper in frame sizes R2, R3 and R4 (only 690V), Boards without coating, One set of default language documents

Option codes

I/O options

2 slots available for I/O options or Fieldbus adapters

☐	L500	Analogue I/O extension	RAIO-01
☐	L501	Digital I/O extension	RDIO-01
☐	L502	Pulse encoder interface	RTAC-01
☐	L516	Resolver interface	RRIA-01
☐	L517	Pulse encoder interface TTL	RTAC-03
☐	L503	DDCS Communication 3	RDCO-03
☐	L509	DDCS Communication 2	RDCO-02
☐	L508	DDCS Communication 1	RDCO-01

L516 available only with Motion control and PMSM application softwares
L517 available only with standard application program and N651, N652, N654, N668, N677, N685, N697 and N698 programs

Fieldbus

2 slots available for I/O options or Fieldbus adapters

☐	K451	DeviceNet adapter	RDNA-01
☐	K452	LONWorks adapter	RLON-01
☐	K454	Profibus-DP adapter	RPBA-01
☐	K457	CANOpen adapter	RCAN-01
☐	K458	Modbus adapter	RMBA-01
☐	K462	ControlNet adapter	RCNA-01
☐	K466	Ethernet adapter(EIP,MB/TCP)	RETA-01
☐	K467	Ethernet adapter(Profinet IO, MB/TCP)	RETA-02

1 or 2 Digital extensions
1or 2 Analogue extensions, one for I/O, the other only for motor temp. measurement
With motion control sw it is possible to have 1 or 2 pulse encoder/resolver interfaces
Communication board has always one dedicated slot.
Modbus adapter can be used with other Fieldbus adapter

Program

☐	N687	Pump control	*)
☐	N651	Master/follower control	
☐	N652	Crane drive control	
☐	N653	Application base control	*)
☐	N654	Spinning control	
☐	N655	PCP and ESP control	
☐	N660	Inline control	
☐	N661	Winder control	
☐	N668	Traverse control	
☐	N669	Centrifuge control	*)
☐	N671	System control	
☐	N675	Rod pump control	
☐	N677	PMSM control - system interface (for low speed-high torque motors)	*)
☐	N679	PMSM control - standard interface (for low speed-high torque motors)	
☐	N682	Multiblock control	*)
☐	N685	Motion control	
☐	N697	Crane control	
☐	N698	Winch control	*)

Master follower includes optic fibres, requires DDCS communication (add L503, L509 or L508 to code)

*) *Available only for Drives Engineering Centers*

*) *Decanter control requires DDCS communication + optic fibres*

Software compatibility with different option modules must be checked from ACS800 software compatibility document (doc no. 3AFE64638211) in ABB Library

*) *Not available for -0205-3 and -0255-5*

ACS800-04 Type Code Sheet — 1 - 200 kW, Drive module

Control panel

☐	J400	CDP312R control panel in module (in R2 - R4 includes also the J414 holder)	
☐	J414	Control panel holder for frame sizes R2 - R4 (not to be used with J400 option)	

Construction

☐	C132	Marine Drive	Coated boards included. Type approval of classicication socities. Only ABS, BV and Lloyd's for -0135-3, -0165-3, -0165-5, -0205-5, -0145-7, -0175-7 and -0205-7. ABS and BV for -0075-3, -0105-5, -0205-3 and -0255-5
☐	C135	Flange mounting	*C135: Flange mounting plate ready assembled. Heat sink side IP55, front side IP20.*

Filters

☐	E200	EMC/RFI-filter, Cat. C3, 2nd Env., Earthed Network, frames R2 - R5 only	
☐	E210	EMC/RFI-filter, Cat. C3, 2nd Env., Earthed/Unearthed Network, frame R6 only	
☐	E202	EMC/RFI-filter, Cat. C2, 1st Env., Earthed Network	*E202 not available for 690V units*

Resistor braking

☐	D150	Braking chopper	*Included as standard in frame sizes R2 , R3 and 690V frame R4*

Safety features

☐	Q967	Safe Torque Off	*Separate gate driver power supply board (ASTO) IP20 and connection wire included in the converter package. Does not include e.g. safety relay.*

Documentation language

See ACS800-U1 for details

Specialities

☐	P901	Coated boards	*Not applicable with C132*
☐	P904	Extended warranty	

ACS800-04 Type Code Sheet

90 - 560 kW, Drive module

A	C	S	8	0	0	-	0	4

04 = Drive module, 6 pulse diode bridge, IP00 (UL Open type), Top entry of cables, side exit, RDCU motor control and I/O unit, No control panel, No EMC filter, Standard software, Boards without coating, Bookshelf pedestal with output busbars for motor, Bars for floor and wall fixing, One set of default language documents

Option codes

I/O options

2 slots available for I/O options or Fieldbus adapters

☐	L500	Analogue I/O extension	RAIO-01
☐	L501	Digital I/O extension	RDIO-01
☐	L502	Pulse encoder interface	RTAC-01
☐	L516	Resolver interface	RRIA-01
☐	L517	Pulse encoder interface TTL	RTAC-03
☐	L503	DDCS Communication 3	RDCO-03
☐	L509	DDCS Communication 2	RDCO-02
☐	L508	DDCS Communication 1	RDCO-01

L516 available only with Motion control and PMSM application softwares
L517 available only with standard application program and N651, N652, N654, N668, N677, N685, N697 and N698 programs

1 or 2 Digital extensions
1or 2 Analogue extensions, one for I/O, the other only for motor temp. measurement
With motion control sw it is possible to have 1 or 2 pulse encoder/resolver interfaces
Communication board has always one dedicated slot.
Modbus adapter can be used with other Fieldbus adapter

Fieldbus

2 slots available for I/O options or Fieldbus adapters

☐	K451	DeviceNet adapter	RDNA-01
☐	K452	LONWorks adapter	RLON-01
☐	K454	Profibus-DP adapter	RPBA-01
☐	K457	CANOpen adapter	RCAN-01
☐	K458	Modbus adapter	RMBA-01
☐	K462	ControlNet adapter	RCNA-01
☐	K466	Ethernet adapter(EIP,MB/TCP)	RETA-01
☐	K467	Ethernet adapter(Profinet IO, MB/TCP)	RETA-02

Program

☐	N687	Pump control
☐	N651	Master/follower control
☐	N652	Crane drive control
☐	N653	Application base control
☐	N654	Spinning control
☐	N655	PCP and ESP control
☐	N660	Inline control
☐	N661	Winder control
☐	N668	Traverse control
☐	N669	Centrifuge control
☐	N671	System control
☐	N675	Rod pump control
☐	N677	PMSM control - system interface (for low speed-high torque motors)
☐	N679	PMSM control - standard interface (for low speed-high torque motors)
☐	N682	Multiblock control
☐	N685	Motion control
☐	N697	Crane control
☐	N698	Winch control

Master follower includes optic fibres, requires DDCS communication (add L503, L509 or L508 to code)

Available only for Drives Engineering Centers

Decanter control requires DDCS communication + optic fibres

Software compatibility with different option modules must be checked from ACS800 software compatibility document (doc no. 3AFE64638211) in ABB Library

ACS800-04 Type Code Sheet 90 - 560 kW, Drive module

Control panel

☐	J400	CDP 312R control panel (incl. 3 m control panel cable)
☐	J410	RPMP-11 control panel mounting platform incl. 3 m panel connection cable (Without control panel)
☐	J413	RPMP-21 control panel mounting platform ("pocket" model to be mounted inside the enclosure without control panel)

Filters

☐	E210	EMC/RFI-filter, Cat. C3, 2nd Env., Earthed/Unearthed Network
☐	E208	Common mode filter

Resistor braking

☐	D150	Braking chopper (Including output busbar kit for braking chopper and DC unless +0H354 has been selected)

Pedestal

☐	0H354	No pedestal

Safety features

☐	Q967	Safe Torque Off

Documentation language

See ACS800-U1 for details

☐	R711	Russian	*Delivered set may include manuals in English*

Specialities

☐	P901	Coated boards
☐	P904	Extended warranty

ACS800-04M Type Code Sheet — 90 - 560 kW, Drive module

A	C	S	8	0	0	-	0	4	M

04M = Modular drive module, 6 pulse diode bridge, IP00 (UL Open type), Top entry of cables, exit requires pedestal, RDCU motor control and I/O unit, No control panel, No EMC filter, Standard software, Boards without coating, No pedestal, No output busbars, One set of default language documents, Pedestal & mechanical accessories delivered as loose parts

Option codes

I/O options

2 slots available for I/O options or Fieldbus adapters

☐	L500	Analogue I/O extension	RAIO-01
☐	L501	Digital I/O extension	RDIO-01
☐	L502	Pulse encoder interface	RTAC-01
☐	L516	Resolver interface	RRIA-01
☐	L517	Pulse encoder interface TTL	RTAC-03
☐	L503	DDCS Communication 3	RDCO-03
☐	L509	DDCS Communication 2	RDCO-02
☐	L508	DDCS Communication 1	RDCO-01

L516 available only with Motion control and PMSM application softwares
L517 available only with standard application program and N651, N652, N654, N668, N677, N685, N697 and N698 programs

1 or 2 Digital extensions
1or 2 Analogue extensions, one for I/O, the other only for motor temp. measurement
With motion control sw it is possible to have 1 or 2 pulse encoder/resolver interfaces
Communication board has always one dedicated slot.
Modbus adapter can be used with other Fieldbus adapter

Fieldbus

2 slots available for I/O options or Fieldbus adapters

☐	K451	DeviceNet adapter	RDNA-01
☐	K452	LONWorks adapter	RLON-01
☐	K454	Profibus-DP adapter	RPBA-01
☐	K457	CANOpen adapter	RCAN-01
☐	K458	Modbus adapter	RMBA-01
☐	K462	ControlNet adapter	RCNA-01
☐	K466	Ethernet adapter(EIP,MB/TCP)	RETA-01
☐	K467	Ethernet adapter(Profinet IO, MB/TCP)	RETA-02

Program

☐	N687	Pump control
☐	N651	Master/follower control
☐	N652	Crane drive control
☐	N653	Application base control
☐	N654	Spinning control
☐	N655	PCP and ESP control
☐	N660	Inline control
☐	N661	Winder control
☐	N668	Traverse control
☐	N669	Centrifuge control
☐	N671	System control
☐	N675	Rod pump control
☐	N677	PMSM control - system interface (for low speed-high torque motors)
☐	N679	PMSM control - standard interface (for low speed-high torque motors)
☐	N682	Multiblock control
☐	N685	Motion control

Master follower includes optic fibres, requires DDCS communication (add L503, L509 or L508 to code)

Available only for Drives Engineering Centers

Decanter control requires DDCS communication + optic fibres

Software compatibility with different option modules must be checked from ACS800 software compatibility document (doc no. 3AFE64638211) in ABB Library

ACS800-04M Type Code Sheet 90 - 560 kW, Drive module

Program (Cont')

☐	N697	Crane control
☐	N698	Winch control

Control panel

☐	J400	CDP 312R control panel (incl. 3 m control panel cable)
☐	J410	RPMP-11 control panel mounting platform incl. 3 m panel connection cable (Without control panel)
☐	J413	RPMP-21 control panel mounting platform ("pocket" model to be mounted inside the enclosure without control panel)

Filters

☐	E210	EMC/RFI-filter, Cat. C3, 2nd Env., Earthed/Unearthed Network
☐	E202	EMC/RFI-filter, Cat. C2, 1st Env., Earthed Network
☐	E208	Common mode filter

E202 not available for 690V units

Resistor braking

☐	D150	Braking chopper (if +H354 or +H360 are selected, select also +H356)

Pedestal, pedestal accessories

☐	H352	Bottom exit kit (available only for R7; wall mounting; includes DC and braking chopper busbars; alternatives H354 and H360)
☐	H354	Bookshelf pedestal (alternatives H352 and H360)
☐	H360	Flat type ("side against wall") mounting pedestal (alternatives H352 and H354)
☐	H356	Pedestal busbar kit for DC and braking chopper outputs (requires +H354 or +H360)
☐	H355	Vertical busbars for motor output cable connection (incl. also supports for busbars). Requires +H354 or +H360.
☐	H362	Vertical busbars for DC and braking chopper output cable connection. Requires pedestal +H354 or +H360 and DC busbar kit +H356.
☐	H363	Kit for DC and brake outputs on different sides (one long horisontal pedestal busbar, one extra vertical busbar, one extra support for vertical busbars). Requires +H354 AND +H356.

Safety features

☐	Q967	Safe Torque Off
☐	B060	IP20 shroud. Available only for R7 frame size bottom exit version (+H352) and R8 frame size bookshelf version with vertical busbars (+H354 +H355).

Documentation language

See ACS800-U1 for details

Specialities

☐	P901	Coated boards
☐	P904	Extended warranty

ACS800-07 Type Code Sheet

55 - 500 kW, Cabinet built

A	C	S	8	0	0	-	0	7

07 = Cabinet built, IP21 (UL type1), Main switch fuse with aR fuses, 230 VAC control voltage, Control Panel CDP312R, No EMC filter, Standard software, Bottom entry and exit of cables, Cable lead through entry, Boards without coating, One set of default language documents

Option codes

I/O options

2 slots available for I/O options or Fieldbus adapters as standard

☐	L500	Analogue I/O extension	RAIO-01
☐	L501	Digital I/O extension	RDIO-01
☐	L502	Pulse encoder interface	RTAC-01
☐	L516	Resolver interface	RRIA-01
☐	L503	DDCS Communication 3	RDCO-03
☐	L509	DDCS Communication 2	RDCO-02
☐	L508	DDCS Communication 1	RDCO-01
☐	L504	Additional I/O-Terminal Block	
☐	L505	Thermistor Relay (1 or 2 pcs)	(Not with L506 or L513)
☐	L506	Pt100 Relay (3, 5 or 8 pcs)	(Not with L505 or L513)
☐	L513	ATEX Certified thermal protection with PTC *(requires prevention of unexpected start, add Q950 to code)*	
☐	L515	I/O extension adapter	*Requires DDCS communication*

L516 available only with PMSM application software

Standard application supports
3 Digital extensions and
2 Analogue extensions, one for I/O, the other only for motor temp. measurement
Communication board has always one dedicated slot.
Modbus adapter can be used with other Fieldbus adapter

I/O extension adapter (requires DDCS communication), adds three slots for I/O extension and Pulse encoder. Check compatibility with different application softwares.

Fieldbus

2 slots available for I/O options or Fieldbus adapters

☐	K451	DeviceNet adapter	RDNA-01
☐	K452	LONWorks adapter	RLON-01
☐	K454	Profibus-DP adapter	RPBA-01
☐	K457	CANOpen adapter	RCAN-01
☐	K458	Modbus adapter	RMBA-01
☐	K462	ControlNet adapter	RCNA-01
☐	K466	Ethernet adapter(EIP,MB/TCP)	RETA-01
☐	K467	Ethernet adapter(Profinet IO, MB/TCP)	RETA-02
☐	K453	Interbus-S adapter	NIBA-01
☐	K456	AF100 adapter	NAFA-01

N-type fieldbus adapters require DDCS Communication board.
Add L503 or L509 to code

Program

☐	N687	Pump control	*)
☐	N651	Master/follower control	
☐	N652	Crane drive control	
☐	N653	Application base control	*)
☐	N654	Spinning control	
☐	N655	PCP and ESP control	
☐	N660	Inline control	
☐	N661	Winder control	
☐	N668	Traverse control	
☐	N669	Centrifuge control	
☐	N671	System control	
☐	N675	Rod pump control	

Master follower includes optic fibres, requires DDCS communication (add L503, L509 or L508 to code)

Available only for Drives Engineering Centers

*) *Decanter Control requires DDCS communication + optic fibres*

ACS800-07 Type Code Sheet 55 - 500 kW, Cabinet built

Program (Cont')

☐	N677	PMSM control - system interface (for low speed-high torque motors)	*)
☐	N679	PMSM control - standard interface (for low speed-high torque motors)	
☐	N682	Multiblock control	*)
☐	N697	Crane control	
☐	N698	Winch control	*)

Software compatibility with different option modules must be checked from ACS800 software compatibility document (doc no. 3AFE64638211) in ABB Library

**) Not available for -0205-3 and -0255-5*

Protection class

☐	B053	IP22 (UL type 1)
☐	B054	IP42 (UL type 1)
☐	B055	IP54 (UL type 12)
☐	B059	IP54R

Construction

☐	C121	Marine construction	*Reinforced mechanics and fastening, door handels, self extinctive materials, requires marking of conductors (G338-G342) Not available with C129 or C134*
☐	C129	UL listed	*C129 includes US type main switch fuse, Top entry and exit,115VAC control voltage, US Cable conduit entry, all components UL listed/recognized, max. supply voltage 600 V*
☐	C134	CSA approved	*C134 Includes US/CSA type main switch fuse, Bottom entry and exit, 115VAC control voltage, US Cable conduit entry, all components UL/CSA listed/recognized, max. supply voltage 600 V*

Filters

☐	E200	EMC/RFI-filter, Cat. C3, 2nd Env., Earthed Network, frame R5 only	
☐	E202	EMC/RFI-filter, Cat. C2, 1st Env., Earthed Network	
☐	E210	EMC/RFI-filter, Cat. C3, 2nd Env., Earthed/Unearthed Network	
☐	E205	Du/dt limitation by choke	*E205 is not for 690V, adds width by 200 mm for R7, 400 mm for R8*
☐	E208	Common mode filter	*E208 is not available for R5 and R6 **except** 0135-3, 0165-3, 0205-3, 0165-5, 0205-5, 0255-5, 0145-7, 0175-7 and 0205-7*
☐	E206	Sine output filter	*E206 is not available for R5 and R6 **except** 0135-3, 0205-3, 0165-5, 0255-5, 0145-7 and 0175-7. Not available for 0260-7, 0490-7, 0610-7 or with C121, C129 or E205. Available output current reduced for some types*

Resistor braking

☐	D150	Braking chopper	*Braking resistor is not available as IP54, IP54R, or with C121, C129 or C134.*
☐	D151	Braking resistor	

Line fuses

☐	F251	gG line fuses	*Replaces standard aR fuses, not available with C129 or C134*

Specialities

☐	P901	Coated boards
☐	P902	Customised (Described in Technical appendix)
☐	P904	Extended warranty
☐	P913	Special colour (Described in Technical appendix)

ACS800-07 Type Code Sheet 55 - 500 kW, Cabinet built

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	
☐	H358	Cable conduit entry (US & UK version)	*(Included with C129 or C134)*

Control voltage

☐	G304	115 VAC Control Voltage	*(Included with C129 or C134)*

Cabinet options

☐	G300	Cabinet heater (External supply)	*(Not available with C134)*
☐	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)*
☐	G338	Wire marking class A1	
☐	G339	Wire marking class A2	
☐	G340	Wire marking class A3	
☐	G341	Wire marking class B1	
☐	G342	Wire marking class C1	

***Class A1**, equipment pin numbers printed on conductors, conductors to terminal blocks not marked*
***Class A2**, equipment and terminal block pin numbers printed on conductors*
***Class A3**, like A2 but marking by rings*
***Class B1**, equipment and terminal block pin numbers and equipment Ids marked by rings*
***Class C1,** like B1 but remote end address is also marked*

Documentation language

See ACS800-U1 for details

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)
☐	M605	10...16 A	(1 pc)

M604 and M605 are not available for R5 or R6 except 0165-3, 0205-3, 0205-5, 0255-5, 0175-7 and 0205-7

Safety features

☐	Q963	Emergency Stop, Category 0, No line contactor	
☐	Q964	Emergency Stop, Category 1, No line contactor	
☐	Q968	Safe Torque Off	
☐	F250+Q951	Line contactor + Emergency Stop, Category 0	
☐	F250+Q952	Line contactor + Emergency Stop, Category 1	
☐	Q954	Earth Fault Monitoring, Unearthed Mains	

Category 1 reserves one RDIO module with Standard-, Master follower-, Centrifuge-, or Permanent Magnet Control Std applicatrion (add +L501 to code)

F250 + Q951/Q952 applicable to frame R6 only (main contactor included in other frames).

Specialities

☐	P901	Coated boards
☐	P902	Customised (Described in Technical appendix)
☐	P904	Extended warranty
☐	P913	Special colour (Described in Technical appendix)

ACS800-U11 Type Code Sheet — 10 - 125 HP, Wall Mounted

A	C	S	8	0	0	-	U	1	1

U11 = Wall mounted regenerative drive (USA), IP21, With control panel CDP312R, RDCO-03, No EMC filter, Standard software (US), Cable conduit entry, Boards with coating, One set of default language documents.

Option codes

I/O options

2 slots available for I/O options or Fieldbus adapters

☐	L500	Analogue I/O extension	RAIO-01
☐	L501	Digital I/O extension	RDIO-01
☐	L502	Pulse encoder interface	RTAC-01
☐	L516	Resolver interface	RRIA-01
☐	L517	Pulse encoder interface TTL	RTAC-03
☐	L509	DDCS Communication 2	RDCO-02
☐	L508	DDCS Communication 1	RDCO-01

L516 available only with Motion control and PMSM application softwares

1 or 2 Digital extensions
1or 2 Analogue extensions, one for I/O, the other only for motor temp. measurement
With motion control sw it is possible to have 1 or 2 pulse encoder/resolver interfaces
Communication board has always one dedicated slot.
Modbus adapter can be used with other Fieldbus adapter

Fieldbus

2 slots available for I/O options or Fieldbus adapters

☐	K451	DeviceNet adapter	RDNA-01
☐	K452	LONWorks adapter	RLON-01
☐	K454	Profibus-DP adapter	RPBA-01
☐	K457	CANOpen adapter	RCAN-01
☐	K458	Modbus adapter	RMBA-01
☐	K462	ControlNet adapter	RCNA-01
☐	K466	Ethernet adapter(EIP,MB/TCP)	RETA-01
☐	K467	Ethernet adapter(Profinet IO, MB/TCP)	RETA-02

Program

☐	N687	Pump control	
☐	N651	Master/follower control	
☐	N652	Crane drive control	
☐	N653	Application base control	*Available only for Drives Engineering Centers*
☐	N660	Inline control	
☐	N661	Winder control	
☐	N669	Centrifuge control	*Decanter control requires DDCS communication + optic fibres*
☐	N671	System control	
☐	N677	PMSM control - system interface (for low speed-high torque motors)	
☐	N679	PMSM control - standard interface (for low speed-high torque motors)	
☐	N682	Multiblock control	
☐	N685	Motion control	
☐	N697	Crane control	
☐	N698	Winch control	

Software compatibility with different option modules must be checked from ACS800 software compatibility (doc no. 3AFE64638211) in ABB Library..

Control panel

☐	0J400	No control panel

Filters

☐	E200	EMC/RFI-filter, Cat. C3, 2nd Env., Earthed Network
☐	E202	EMC/RFI-filter, Cat. C2, 1st Env., Earthed Network

E202 not available for 690V units

ACS800-U11 Type Code Sheet 10 - 125 HP, Wall Mounted

Cabling

☐	H357	Cable lead through entry (European)

Safety features

☐	Q967	Safe Torque Off	*Separate gate driver power supply board (AGPS) and connection wire included in the converter package. Does not include e.g. safety relay.*

Documentation language

See ACS800-U1 for details

Specialities

☐	P904	Extended warranty

ACS800-U31 Type Code Sheet 10 - 125 HP, Wall Mounted

A	C	S	8	0	0	-	U	3	1

U31 = Wall mounted low harmonic drive (USA), IP21, With control panel CDP312R, RDCO-03, No EMC filter, Standard software (US), Cable conduit entry, Boards with coating, One set of default language documents.

Option codes

I/O options

2 slots available for I/O options or Fieldbus adapters

☐	L500	Analogue I/O extension	RAIO-01
☐	L501	Digital I/O extension	RDIO-01
☐	L502	Pulse encoder interface	RTAC-01
☐	L516	Resolver interface	RRIA-01
☐	L509	DDCS Communication 2	RDCO-02
☐	L508	DDCS Communication 1	RDCO-01

L516 available only with PMSM application software

Fieldbus

2 slots available for I/O options or Fieldbus adapters

☐	K451	DeviceNet adapter	RDNA-01
☐	K452	LONWorks adapter	RLON-01
☐	K454	Profibus-DP adapter	RPBA-01
☐	K457	CANOpen adapter	RCAN-01
☐	K458	Modbus adapter	RMBA-01
☐	K462	ControlNet adapter	RCNA-01
☐	K466	Ethernet adapter(EIP,MB/TCP)	RETA-01
☐	K467	Ethernet adapter(Profinet IO, MB/TCP)	RETA-02

1 or 2 Digital extensions
1or 2 Analogue extensions, one for I/O, the other only for motor temp. measurement
Communication board has always one dedicated slot.
Modbus adapter can be used with other Fieldbus adapter

Program

☐	N687	Pump control	
☐	N651	Master/follower control	
☐	N652	Crane drive control	
☐	N653	Application base control	*Available only for Drives Engineering Centers*
☐	N660	Inline control	
☐	N661	Winder control	
☐	N671	System control	
☐	N677	PMSM control - system interface (for low speed-high torque motors)	
☐	N679	PMSM control - standard interface (for low speed-high torque motors)	
☐	N682	Multiblock control	
☐	N697	Crane control	
☐	N698	Winch control	

Software compatibility with different option modules must be checked from ACS800 software compatibility (doc no. 3AFE64638211) in ABB Library.

Control panel

☐	0J400	No control panel

Filters

☐	E200	EMC/RFI-filter, Cat. C3, 2nd Env., Earthed Network
☐	E202	EMC/RFI-filter, Cat. C2, 1st Env., Earthed Network

E202 not available for 690V units

ACS800-U31 Type Code Sheet 10 - 125 HP, Wall Mounted

Cabling

☐	H357	Cable lead through entry (European)

Safety features

☐	Q967	Safe Torque Off	*Separate gate driver power supply board (AGPS) and connection wire included in the converter package. Does not include e.g. safety relay.*

Documentation language

See ACS800-U1 for details

Specialities

☐	P904	Extended warranty

ACS800-17 Type Code Sheet

55 - 500 kW, Cabinet built

A	C	S	8	0	0	-	1	7

17 = Cabinet built regenerative drive, IP21 (UL type1), Main switch fuse with aR fuses, Line contactor (option for frame R6), 230 VAC control voltage, RDCO-03, Control Panel CDP312R, EMC 2nd Environment (R6 no EMC filter), Du/dt limitation by choke in 690V R8i, Common mode filter (not for R6), Standard software, Bottom entry and exit of cables, Cable lead through entry, Coated boards, One set of default language documents

Option codes

I/O options

2 slots available for I/O options or Fieldbus adapters as standard

☐	L500	Analogue I/O extension	RAIO-01
☐	L501	Digital I/O extension	RDIO-01
☐	L502	Pulse encoder interface	RTAC-01
☐	L516	Resolver interface	RRIA-01
		L516 available only with PMSM application software	
☐	L509	DDCS Communication 2	RDCO-02
☐	L508	DDCS Communication 1	RDCO-01
☐	L504	Additional I/O-Terminal Block	
☐	L505	Thermistor Relay (1 or 2 pcs)	(Not with L506 or L513)
☐	L506	Pt100 Relay (3, 5 or 8 pcs)	(Not with L505 or L513)
☐	L513	ATEX Certified thermal protection with PTC *(requires prevention of unexpected start, add Q950 to code)*	
☐	L515	I/O extension adapter	

Standard application supports 3 Digital extensions and 2 Analogue extensions, one for I/O, the other only for motor temp. measurement
Communication board has always one dedicated slot.
Modbus adapter can be used with other Fieldbus adapter

I/O extension adapter adds three slots for I/O extension and Pulse encoder. Check compatibility with different application softwares.

Fieldbus

2 slots available for I/O options or Fieldbus adapters

☐	K451	DeviceNet adapter	RDNA-01
☐	K452	LONWorks adapter	RLON-01
☐	K454	Profibus-DP adapter	RPBA-01
☐	K457	CANOpen adapter	RCAN-01
☐	K458	Modbus adapter	RMBA-01
☐	K462	ControlNet adapter	RCNA-01
☐	K466	Ethernet adapter(EIP,MB/TCP)	RETA-01
☐	K467	Ethernet adapter(Profinet IO, MB/TCP)	RETA-02
☐	K453	Interbus-S adapter	NIBA-01
☐	K456	AF100 adapter	NAFA-01

N-type fieldbus adapters require DDCS Communication board.
RDCO-03 included by default, L509 is optional

Program

☐	N687	Pump control	
☐	N651	Master/follower control	
☐	N652	Crane drive control	
☐	N653	Application base control	*Available only for Drives Engineering Centers*
☐	N660	Inline control	
☐	N661	Winder control	
☐	N669	Centrifuge control	*Decanter control requires DDCS communication + optic fibres*
☐	N671	System control	
☐	N675	Rod pump control	

ACS800-17 Type Code Sheet 55 - 500 kW, Cabinet built

Program (Cont')

☐	N677	PMSM control - system interface (for low speed-high torque motors)
☐	N679	PMSM control - standard interface (for low speed-high torque motors)
☐	N682	Multiblock control
☐	N697	Crane control
☐	N698	Winch control

Software compatibility with different option modules must be checked from ACS800 software compatibility (doc no. 3AFE64638211) in ABB Library.

Protection class

☐	B053	IP22	(UL type 1)
☐	B054	IP42	(UL type 1)
☐	B055	IP54	(UL type 12)
☐	B059	IP54R	

Construction

☐	C121	Marine construction	*Reinforced mechanics and fastening, door handels, self extinctive materials, requires marking of conductors (G338-G342) Not available with C129 or C134*
☐	C129	UL listed	*C129 includes: US type main switch fuse, Supply frequency 60 Hz, Top entry and exit,115VAC control voltage, US Cable conduit entry, all components UL listed/recognized, max. supply voltage 600 V.*
☐	C134	CSA approved	*C134 Includes: US/CSA type main switch fuse, Supply frequency 60 Hz, 115VAC control voltage, US Cable conduit entry, all components UL/CSA listed/recognized, max. supply voltage 600 V*

Filters

☐	E200	EMC/RFI-filter, Cat. C3, 2nd Env., Earthed Network, R6 only	
☐	E202	EMC/RFI-filter, Cat. C2, 1st Env., Earthed Network	
☐	E205	Du/dt limitation by choke *(not for 690V R8i)*	*Not for 690V, in R7i and R8i requires common motor terminal cubicle, adds width by 300mm (insert H359 to type code).*
☐	E206	Sine output filter	*Not available for R6 or with C121 or C129. Available output current reduced for some types*

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	
☐	H358	Cable conduit entry (US & UK version), steel 3 mm	*(Included with C129 or C134)*
☐	H365	Cable conduit entry (US & UK version), brass 6 mm	

Control voltage

☐	G304	115 VAC Control Voltage	*(Included with C129 or C134)*

ACS800-17 Type Code Sheet 55 - 500 kW, Cabinet built

Cabinet options

☐	G300	Cabinet heater (External supply)	*(Not available with C134)*
☐	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)*
☐	G338	Wire marking class A1	
☐	G339	Wire marking class A2	
☐	G340	Wire marking class A3	
☐	G341	Wire marking class B1	
☐	G342	Wire marking class C1	

***Class A1**, equipment pin numbers printed on conductors, conductors to terminal blocks not marked*
***Class A2**, equipment and terminal block pin numbers printed on conductors*
***Class A3**, like A2 but marking by rings*
***Class B1**, equipment and terminal block pin numbers and equipment Ids marked by rings*
***Class C1,** like B1 but remote end address is also marked*

Documentation language

See ACS800-U1 for details

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)	(not for R6)
☐	M605	10...16 A	(1 pc)	(not for R6)

Safety features

☐	Q963	Emergency Stop, Category 0, No line contactor
☐	Q964	Emergency Stop, Category 1, No line contactor
☐	Q968	Safe Torque Off
☐	F250+Q951	Line contactor + Emergency Stop, Category 0
☐	F250+Q952	Line contactor + Emergency Stop, Category 1
☐	Q954	Earth Fault Monitoring, Unearthed Mains

Category 1 reserves one RDIO module with Standard-, Master follower-, Centrifuge-, or Permanent Magnet Control Std applicatrion (add +L501 to code)

F250 + Q951/Q952 applicable to frame R6 only (main contactor included in other frames).

Specialities

☐	P902	Customised (Described in Technical appendix)
☐	P904	Extended warranty
☐	P913	Special colour (Described in Technical appendix)

ACS800-37 Type Code Sheet

55 - 500 kW, Cabinet built

A	C	S	8	0	0	-	3	7

37 = Cabinet built low harmonic drive, IP21 (UL type1), Main switch fuse with aR fuses, Line contactor (option for frame R6), 230 VAC control voltage, RDCO-03, Control Panel CDP312R, EMC 2nd Environment (R6 no EMC filter), Du/dt limitation by choke in 690V R8i, Common mode filter (not for R6), Standard software, Bottom entry and exit of cables, Cable lead through entry, Coated boards, One set of default language documents

Option codes

I/O options

2 slots available for I/O options or Fieldbus adapters as standard

☐	L500	Analogue I/O extension	RAIO-01
☐	L501	Digital I/O extension	RDIO-01
☐	L502	Pulse encoder interface	RTAC-01
☐	L516	Resolver interface	RRIA-01
		L516 available only with PMSM application software	
☐	L509	DDCS Communication 2	RDCO-02
☐	L508	DDCS Communication 1	RDCO-01
☐	L504	Additional I/O-Terminal Block	
☐	L505	Thermistor Relay (1 or 2 pcs)	(Not with L506 or L513)
☐	L506	Pt100 Relay (3, 5 or 8 pcs)	(Not with L505 or L513)
☐	L513	ATEX Certified thermal protection with PTC *(requires prevention of unexpected start, add Q950 to code)*	
☐	L515	I/O extension adapter	

Standard application supports 3 Digital extensions and 2 Analogue extensions, one for I/O, the other only for motor temp. measurement
Communication board has always one dedicated slot.
Modbus adapter can be used with other Fieldbus adapter

I/O extension adapter adds three slots for I/O extension and Pulse encoder. Check compatibility with different application softwares.

Fieldbus

2 slots available for I/O options or Fieldbus adapters

☐	K451	DeviceNet adapter	RDNA-01
☐	K452	LONWorks adapter	RLON-01
☐	K454	Profibus-DP adapter	RPBA-01
☐	K457	CANOpen adapter	RCAN-01
☐	K458	Modbus adapter	RMBA-01
☐	K462	ControlNet adapter	RCNA-01
☐	K466	Ethernet adapter(EIP,MB/TCP)	RETA-01
☐	K467	Ethernet adapter(Profinet IO, MB/TCP)	RETA-02
☐	K453	Interbus-S adapter	NIBA-01
☐	K456	AF100 adapter	NAFA-01

N-type fieldbus adapters require DDCS Communication board. RDCO-03 included by default, L509 is optional

Program

☐	N687	Pump control	
☐	N651	Master/follower control	
☐	N652	Crane drive control	
☐	N653	Application base control	*Available only for Drives Engineering Centers*
☐	N660	Inline control	
☐	N661	Winder control	
☐	N669	Centrifuge Control	*Decanter Control requires DDCS communication + optic fibres*
☐	N671	System control	
☐	N675	Rod pump control	

ACS800-37 Type Code Sheet 55 - 500 kW, Cabinet built

Program (Cont')

☐	N677	PMSM control - system interface (for low speed-high torque motors)
☐	N679	PMSM control - standard interface (for low speed-high torque motors)
☐	N682	Multiblock control
☐	N697	Crane control
☐	N698	Winch control

Software compatibility with different option modules must be checked from ACS800 software compatibility (doc no. 3AFE64638211) in ABB Library.

Protection class

☐	B053	IP22	(UL type 1)
☐	B054	IP42	(UL type 1)
☐	B055	IP54	(UL type 12)
☐	B059	IP54R	

Construction

☐	C121	Marine construction	*Reinforced mechanics and fastening, door handels, self extinctive materials, requires marking of conductors (G338-G342) Not available with C129 or C134*
☐	C129	UL listed	*C129 includes: US type main switch fuse, Supply frequency 60 Hz, Top entry and exit,115VAC control voltage, US Cable conduit entry, all components UL listed/recognized, max. supply voltage 600 V.*
☐	C134	CSA approved	*C134 Includes: US/CSA type main switch fuse, Supply frequency 60 Hz 115VAC control voltage, US Cable conduit entry, all components UL/CSA listed/recognized, max. supply voltage 600 V*

Filters

☐	E200	EMC/RFI-filter, Cat. C3, 2nd Env., Earthed Network, R6 only	
☐	E202	EMC/RFI-filter, Cat. C2, 1st Env., Earthed Network	
☐	E205	Du/dt limitation by choke *(not for 690V R8i)*	*Not for 690V, in R7i and R8i requires common motor terminal cubicle, adds width by 300mm (insert H359 to type code).*
☐	E206	Sine output filter	*Not available for R6, or with C121 or C129. Available output current reduced for some types*

Resistor braking

☐	D150	Braking chopper	*Braking resistor is not available as IP54, IP54R, or with C121 or C129. Available output current reduced for some types*
☐	D151	Braking resistor	

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	
☐	H358	Cable conduit entry (US & UK version), steel 3 mm	*(Included with C129 or C134)*
☐	H365	Cable conduit entry (US & UK version), brass 6 mm	

ACS800-37 Type Code Sheet 55 - 500 kW, Cabinet built

Control voltage

☐	G304	115 VAC Control Voltage	*(Included with C129 or C134)*

Cabinet options

☐	G300	Cabinet heater (External supply)	*(Not available with C134)*
☐	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)*
☐	G338	Wire marking class A1	
☐	G339	Wire marking class A2	
☐	G340	Wire marking class A3	
☐	G341	Wire marking class B1	
☐	G342	Wire marking class C1	

***Class A1**, equipment pin numbers printed on conductors, conductors to terminal blocks not marked*
***Class A2**, equipment and terminal block pin numbers printed on conductors*
***Class A3**, like A2 but marking by rings*
***Class B1**, equipment and terminal block pin numbers and equipment Ids marked by rings*
***Class C1,** like B1 but remote end address is also marked*

Documentation language

See ACS800-U1 for details

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)	(not for R6)
☐	M605	10...16 A	(1 pc)	(not for R6)

Safety features

☐	Q963	Emergency Stop, Category 0, No line contactor
☐	Q964	Emergency Stop, Category 1, No line contactor
☐	Q968	Safe Torque Off
☐	F250+Q951	Line contactor + Emergency Stop, Category 0
☐	F250+Q952	Line contactor + Emergency Stop, Category 1
☐	Q954	Earth Fault Monitoring, Unearthed Mains

Category 1 reserves one RDIO module with Standard-, Master follower-, Centrifuge-, or Permanent Magnet Control Std applicatrion (add +L501 to code)

F250 + Q951/Q952 applicable to frame R6 only (main contactor included in other frames).

Specialities

☐	P902	Customised (Described in Technical appendix)
☐	P904	Extended warranty
☐	P913	Special colour (Described in Technical appendix)

Technical Appendix for ACS800-x7

Revision: A

Company:	**Date:** **Page:**
Your ref:	**End Customer:**
Contact Person:	**Project Title:**
Phone / Fax:	**Application:**
eMail:	**Customer ref:**

ACS800-07/-17/-37 Non-Standard Options in ACS 800 Price List

☐ **Drive Type code :** _____

or

☐ **Drive Type code sheet attached:**

☐ No engineering needed only *standard* as build drawings with customer specific drawing title blocks
(specify above project title, end customer and customer ref) no additional engineering

☐ Document approval not needed, send them just for information before starting the production

☐ Supply freq. for options 60Hz (default 50Hz)

☐ Power for RMIO board from internal
230 VAC (Only for ACS800-07, R6-R8)

☐ Ammeter

☐ Voltmeter

☐ Running hour meter

☐ Special colour RAL

☐ NAMUR I/O, requires also F250+Q951+L501+K454+P902

☐ Bypass, specify details below

☐ Signal lamps **(specify colours and function)** *pcs:* _____

☐ Additional relays **(specify type and function)** *pcs:* _____

☐ AI/O galvanic isolation for mA signal *(1-4 pcs)*

☐ Empty cabinet (specify on separate page)

☐ Internal parallel connection busbars for 2xR8i and 3xR8i

☐ 3 phase braking chopper (ACS800-607)
(specify the braking power)

Design by the old reference project No.: _____ or **Purchace No.:** _____

Detailed description of desired function:

Other information

☐ Customer delivers components to ABB
and sends the Data Sheets of the components with Technical Appendix. (min. 9weeks before loading date)

☐ Special door labels (specify using separate appendix)

Preliminary documentation required: *Delivery time must be agreed with ABB.*

☐ Dimension drawings

☐ Control circuit diagrams

Technical Appendix for ACS800-x7

Revision: A

Company:	**Date:** **Page:**
Your ref:	**End Customer:**
Contact Person:	**Project Title:**
Phone / Fax:	**Application:**
eMail:	**Customer ref:**

ACS800-07/-17/-37 Empty Cabinet

☐ **Drive Type code :** _____

or

☐ **Drive Type code sheet attached:**

Number of empty cabinets : _____

Colour

☐ RAL 7035 (std.)

☐ Special _____

Mounting

☐ Mounted to the frequency converter
☐ On the left side of the frequency converter (front view)
☐ On the right side of the frequency converter (front view)

☐ Stand-alone

Enclosure

☐ IP21
☐ IP22
☐ IP42
☐ IP54 (no cooling fans)
☐ IP54R (outlet connection to ventilation channel)

☐ Normal door with air inlet openings
☐ Normal door with control panel mounting platform
☐ Blank door and roof & no air inlet openings

Cable lead through (for empty cabinet)

☐ Standard cable lead through

☐ Top

☐ Bottom

☐ No need for cable lead through (sealed roof and bottom)
☐ Cable gland plate 6mm **brass** (undrilled)
☐ Cable gland plate 3mm **steel** (undrilled)
☐ Cable gland plate 3mm **aluminium** (undrilled)

Cabinet width

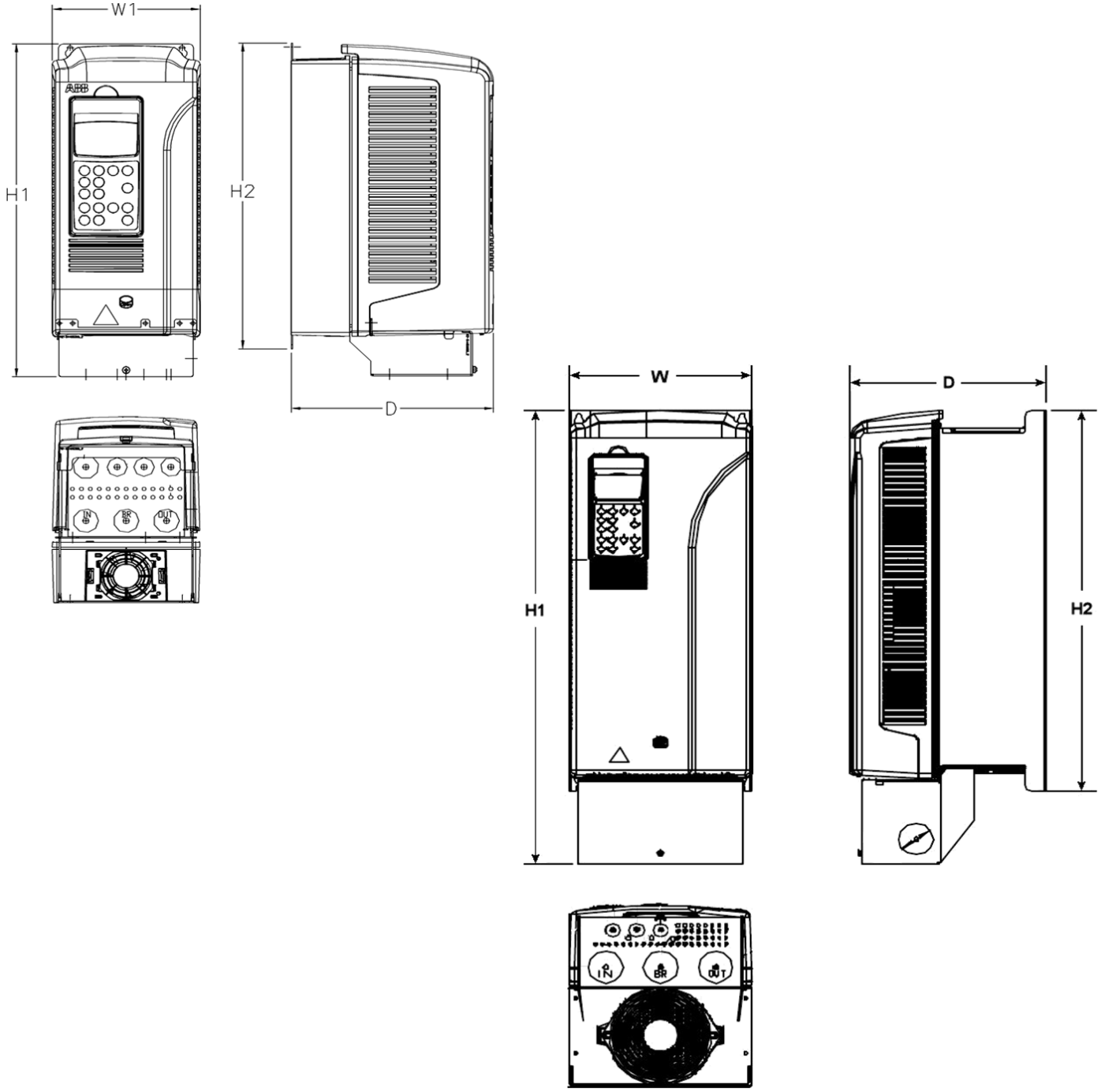
☐ 400 mm
☐ 600 mm

☐ 800 mm
☐ 1000 mm

Assembly plates on both sides and on back as standard

Additional information: _____

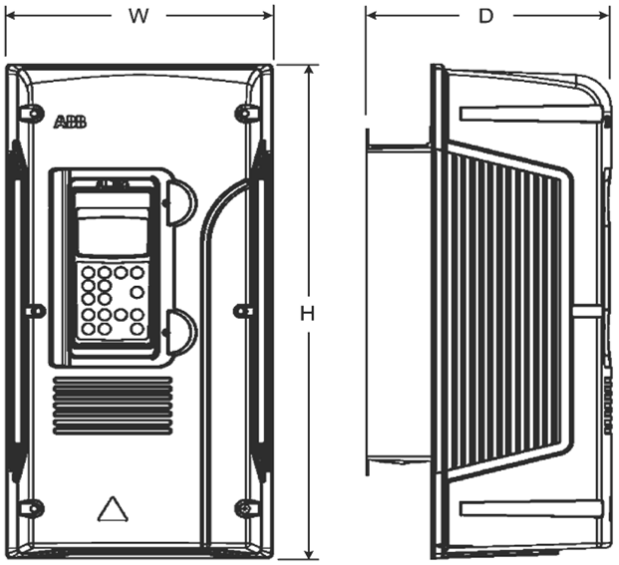
Dimensions: ACS800-01/U1, NEMA 1 Frame size R2 through R6

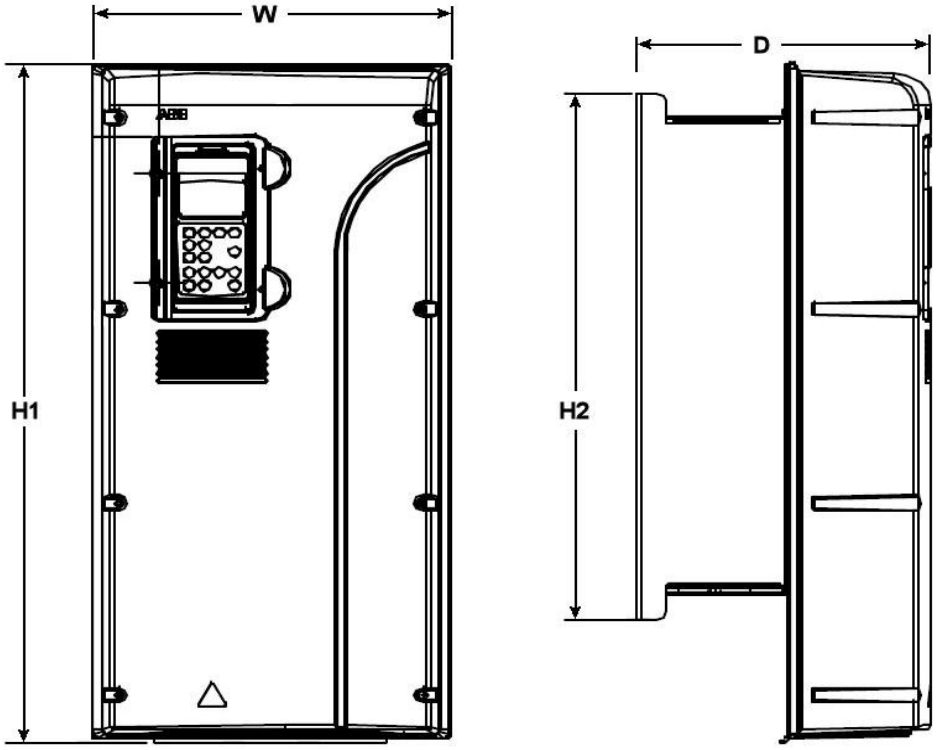


Dimensions - NEMA 1										
	Imperial Units (in)&(lb)					Metric Units (mm)&(Kg)				
Frame	H1	H2	Width	Depth	Weight	H1	H2	Width	Depth	Weight
R2	16.12	14.57	6.5	8.88	20	409.4	370.1	165.1	225.6	9
R3	18.49	16.54	6.81	10.43	31	469.6	420.1	173	264.9	14
R4	21.29	19.29	9.45	10.79	57	540.8	490	240	274.1	26
R5	28.27	23.7	10.43	11.25	75	718.1	602	264.9	285.8	34
R6	34.53	27.56	11.81	15.75	148	877.1	700	300	400.1	67

Drawing is not for engineering purposes. See hardware manual for specific dimensions.

Dimensions: ACS800-01/U1, NEMA 12 Frame size R2 through R6

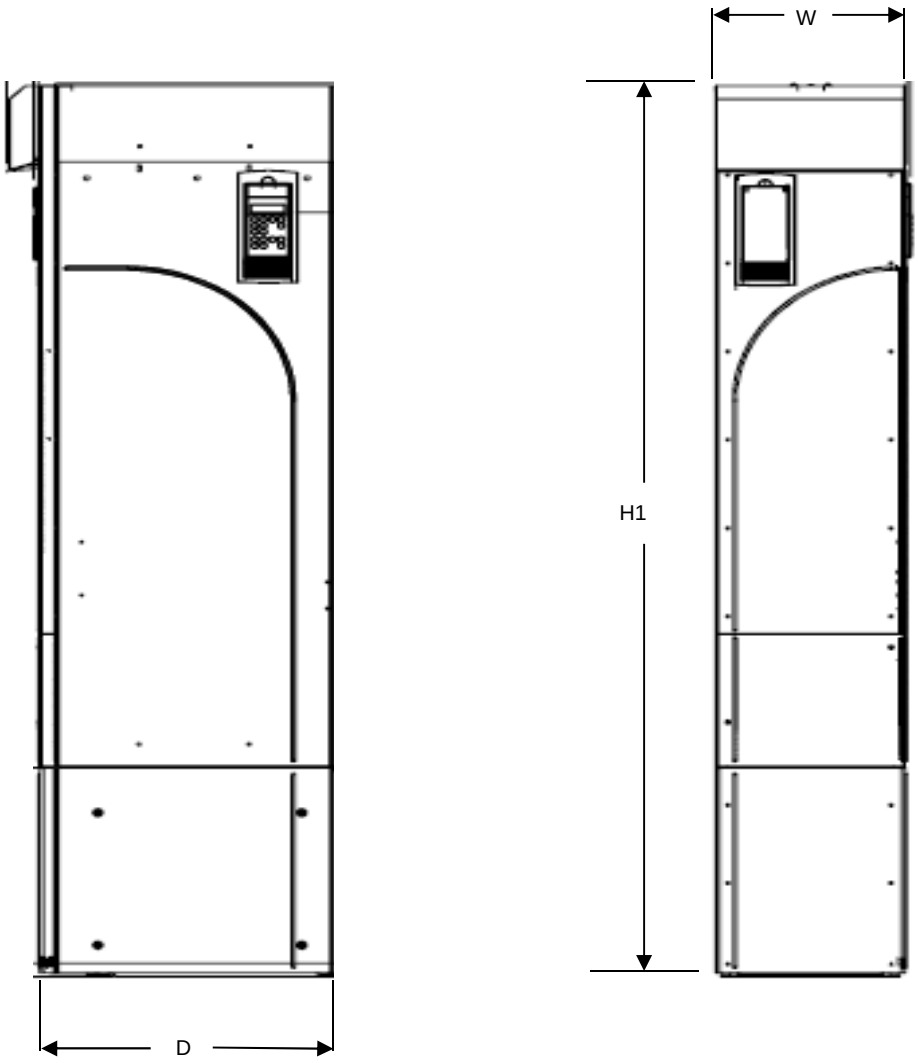




Dimensions - NEMA 12								
	Imperial Units (in)&(lb)				Metric Units (mm)&(Kg)			
Frame	Height	Width	Depth	Weight	Height	Width	Depth	Weight
R2	20.78	10.35	9.49	34	527.8	262.9	241	16
R3	20.78	10.35	10.74	41	527.8	262.9	272.8	18
R4	30.49	14.84	10.94	73	774.4	376.9	277.9	33
R5	30.49	14.84	12.14	112	774.4	376.9	308.4	51
R6	36.34	16.54	16.54	170	923	420.1	420.1	77

Drawing is not for engineering purposes. See hardware manual for specific dimensions.

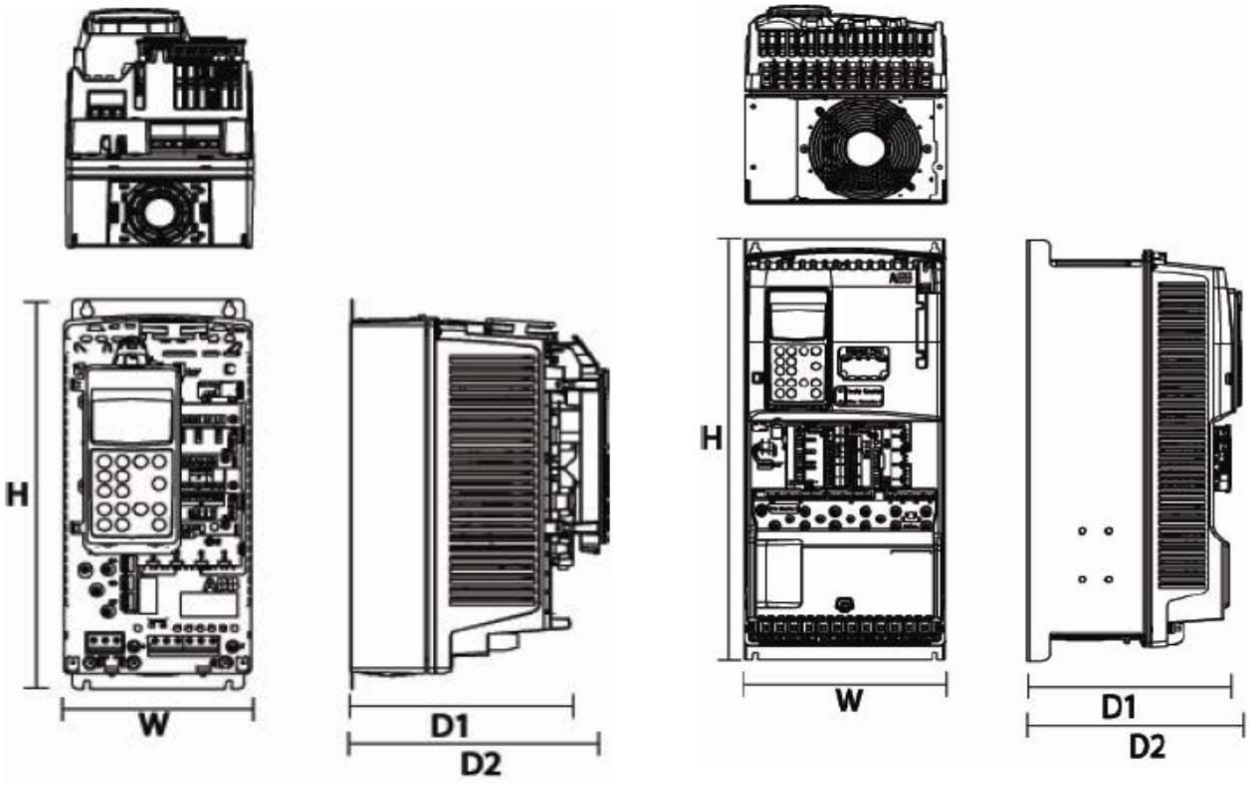
Dimensions: ACS800-02 NEMA 1 Frame size R7 through R8



Dimensions - NEMA 1								
	al Units (in)&(lb)				Metric Units (mm)&(Kg)			
Frame	Height	Width	Depth	Weight	Height	Width	Depth	Weight
R7	59.4	9.9	20.6	243	1507	250	524	110
R8	79.6	13.8	24.5	529	2020	350	622	240

Drawing is not for engineering purposes. See hardware manual for specific dimensions.

Dimensions: ACS800-04 IP00 Frame size R2 through R6

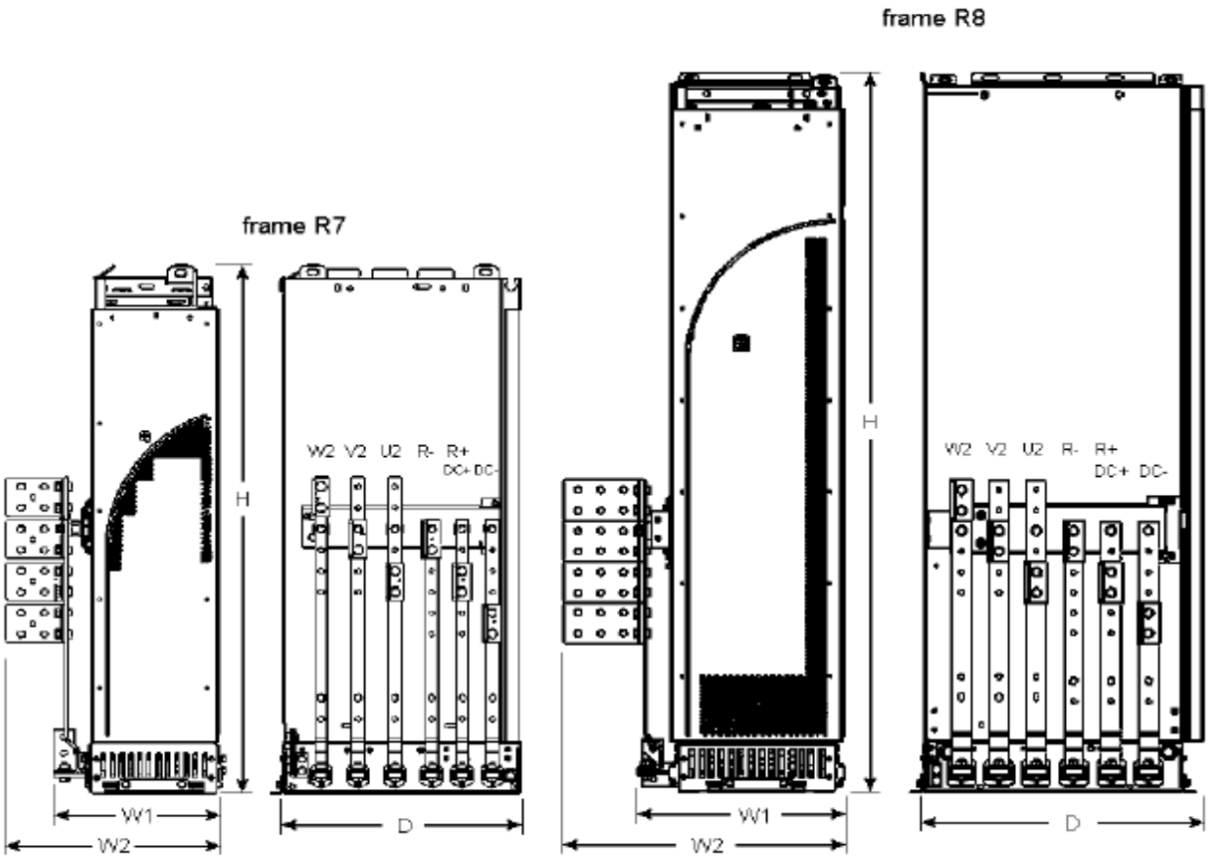


Dimensions - NEMA 1										
	Imperial Units (in)&(lb)					Metric Units (mm)&(Kg)				
Frame	H	W	D1	D2	Weight	H	W	D1	D2	Weight
R2	14.6	6.5	7.8	8.9	20	371	165	198	226	9
R3	16.5	6.8	9.4	10.4	31	419	173	239	264	14
R4	19.3	9.4	10.1	10.7	57	490	239	257	272	26
R5	23.7	10.4	10.6	11.1	75	602	264	269	282	34
R6	27.6	11.8	15.7	15.7	148	701	300	399	399	67

D1 is the depth with option modules installed
D2 is the depth with optional control panel installed

Drawing is not for engineering purposes. See hardware manual for specific dimensions.

Dimensions: ACS800-04 IP00 Frame size R7 & R8

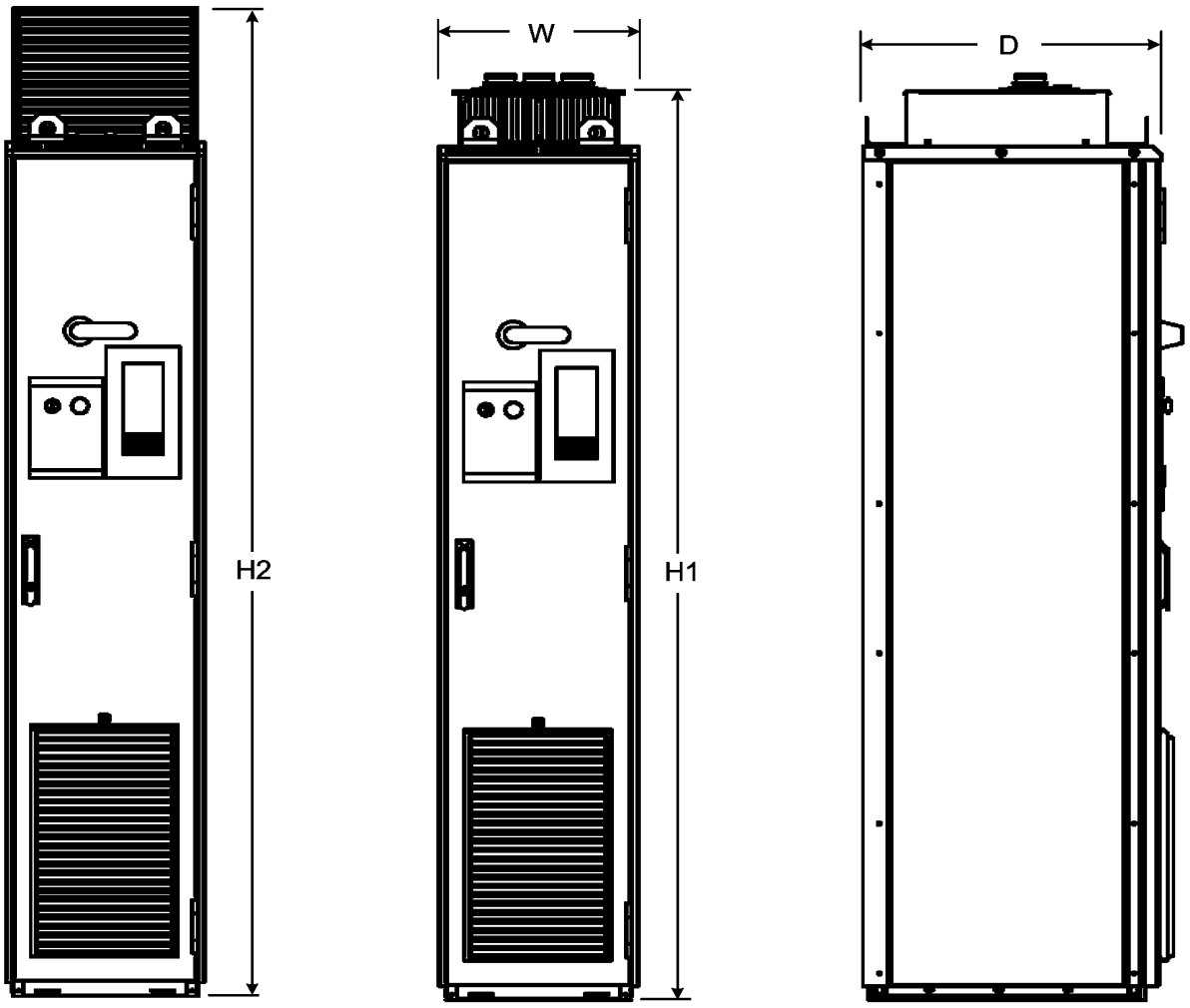


Dimensions										
	Imperial Units (in)&(lb)					Metric Units (mm)&(Kg)				
Frame	H1	W1	W2	Depth	Weight	H1	H2	Width	Depth	Weight
R7	44.1	13.2	16.8	20.3	220	1120	335	427	516	100
R8	61.6	16.4	22.1	22.4	441	1565	417	561	569	200

W1 is the width of the standard product offering and does not include the vertical bus bars
W2 is the width including the field installed optional vertical bus bars

Drawing is not for engineering purposes. See hardware manual for specific dimensions.

Dimensions: ACS800-07, NEMA 1 & 12 Frame size R6



Dimensions										
	Imperial Units (in)&(lb)					Metric Units (mm)&(Kg)				
Frame	H1	H2*	Width	Depth	Weight	H1	H2	Width	Depth	Weight
R6	83.8	91.1	16.9	25.4	662	2130	2315	430	646	300

* NOTE: H2 is the total Height of the NEMA 12 cabinet

Drawing is not for engineering purposes. See hardware manual for specific dimensions.

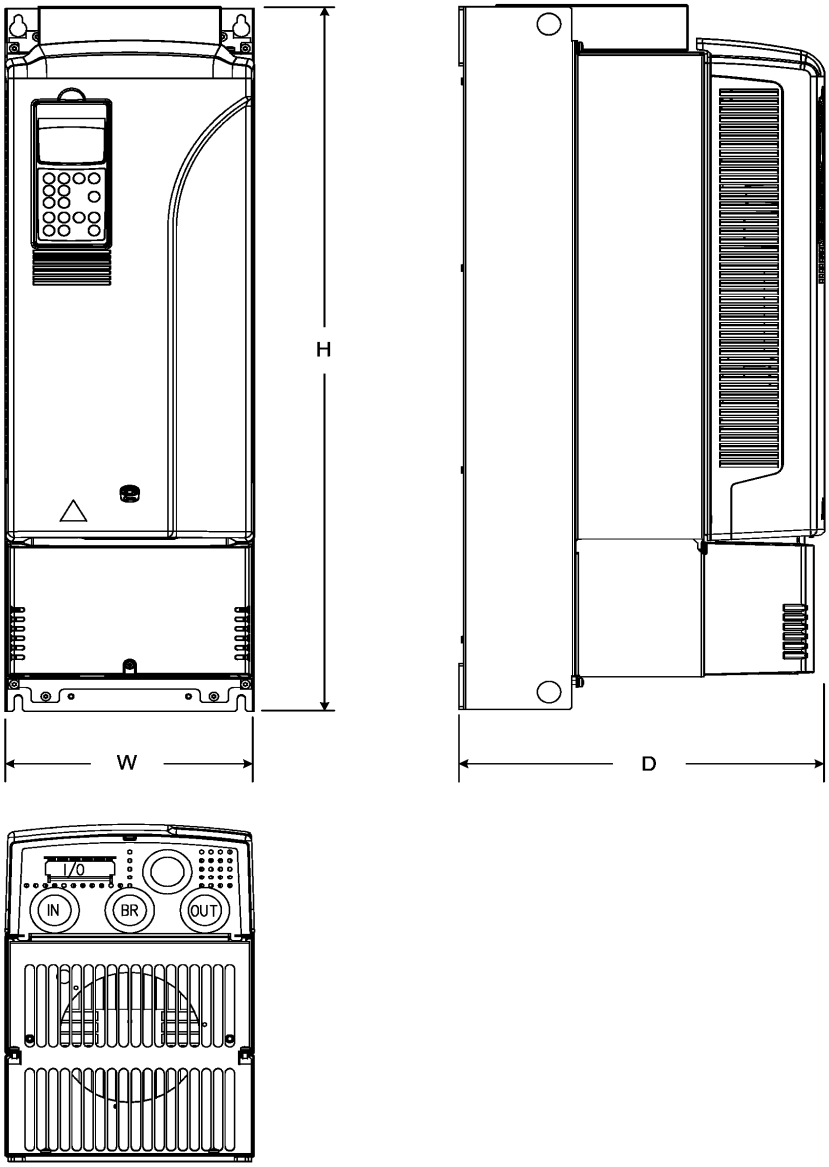
Dimensions: ACS800-07, NEMA 1 & 12 Frame size R7 through R8

Dimensions										
	Imperial Units (in)&(lb)					Metric Units (mm)&(Kg)				
Frame	H1	H2*	Width	Depth	Weight	H1	H2	Width	Depth	Weight
R7	83.8	91.1	32.7	25.4	1102	2130	2315	830	646	500
R8	83.8	91.1	32.7	25.4	1102	2130	2315	830	646	500

* NOTE: H2 is the total Height of the NEMA 12 cabinet

Drawing is not for engineering purposes. See hardware manual for specific dimensions.

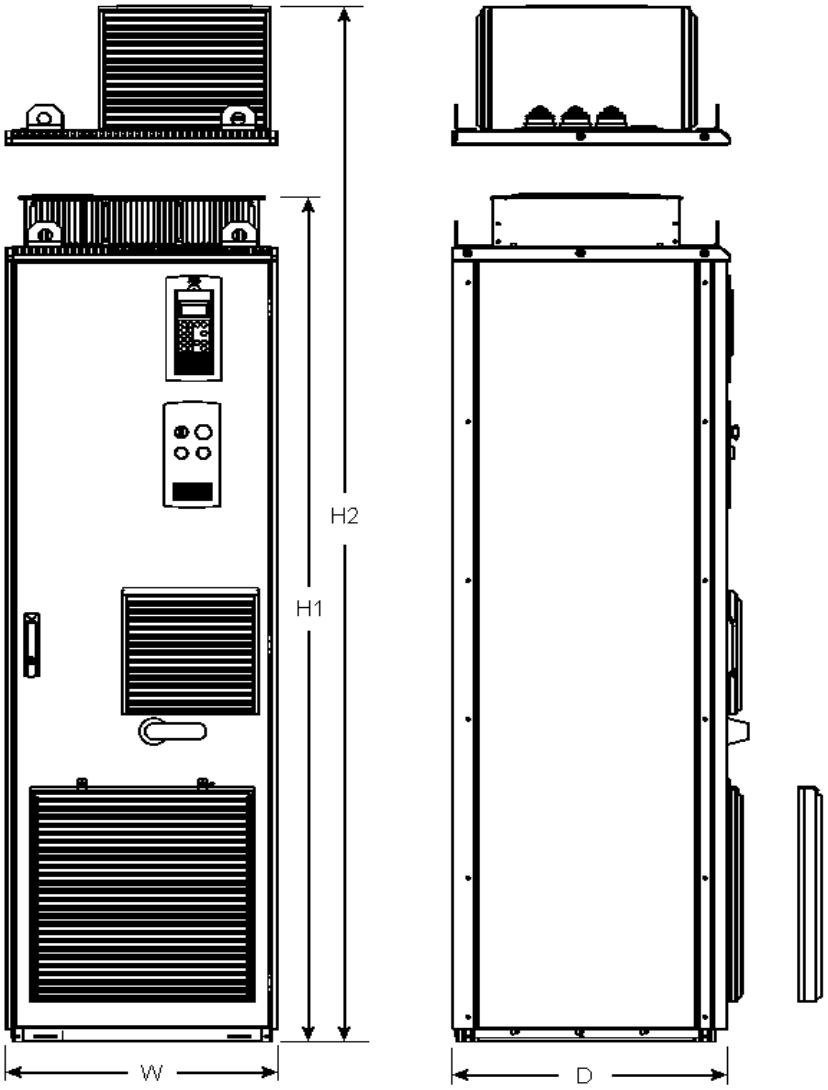
Dimensions: ACS800-11/U11, NEMA 1 Frame sizes R5 through R6
Dimensions: ACS800-31/U31, NEMA 1 Frame sizes R5 through R6



Dimensions - NEMA 1								
Frame	Imperial Units (in)&(lb)				Metric Units (mm)&(Kg)			
	Height	Width	Depth	Weight	Height	Width	Depth	Weight
R5	32.12	10.43	15.35	144	815.8	264.9	389.9	65.3
R6	38.19	11.81	17.28	221	970	300	438.9	100.2

Drawing is not for engineering purposes. See hardware manual for specific dimensions.

Dimensions: ACS800-17, NEMA 1 & 12 Frame size R6 & R7i
Dimensions: ACS800-37, NEMA 1 & 12 Frame size R6 & R7i

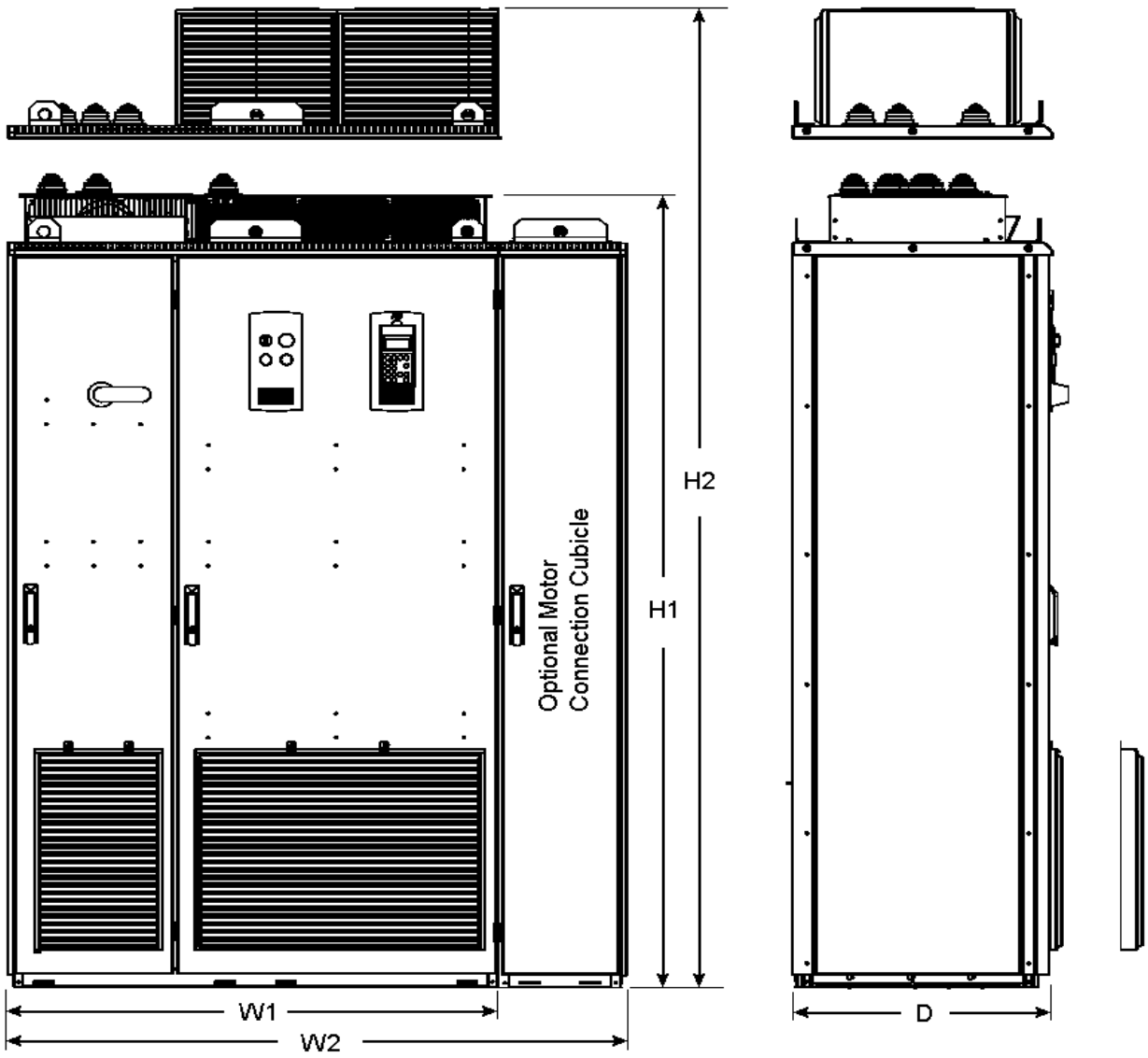


Dimensions										
	Imperial Units (in)&(lb)					Metric Units (mm)&(Kg)				
Frame	H1	H2*	W	Depth	Weight	H1	H2*	W	Depth	Weight
R6	83.9	91.1	24.8	25.4	662	2130	2315	630	646	300
R7i	83.9	91.1	24.8	25.4	882	2130	2315	630	646	400

* NOTE: H2 is the total Height of the NEMA 12 cabinet

Drawing is not for engineering purposes. See hardware manual for specific dimensions.

Dimensions: ACS800-17, NEMA 1 & 12 Frame size R8i
Dimensions: ACS800-37, NEMA 1 & 12 Frame size R8i



Dimensions												
	Imperial Units (in)&(lb)						Metric Units (mm)&(Kg)					
Frame	H1	H2*	W1	W2**	Depth	Weight	H1	H2*	W1	W2**	Depth	Weight
R8i	83.9	91.1	48.4	60.24	25.4	2646	2130	2315	1230	1530	646	1200

* NOTE: H2 is the total Height of the NEMA 12 cabinet

** NOTE: W2 is the width with the optional motor connection cubicle

Drawing is not for engineering purposes. See hardware manual for specific dimensions.

Notes:

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