



Canadian Pricebook

ABB Low Voltage Drives Standard Drives ACS550



Power and productivity
for a better world™



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Whats new in this pricebook revision?

- (1) Updated Terms and conditions of sale
- (2) Addition of RECA-01 EtherCAT Adapter
- (3) List price reduction for ACS550-PD/PC/CC

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Symbols used

f_N	=	Nominal Motor Frequency
I_1	=	Input Current
I_{1N}	=	Continuous rms input current
I_{2N}	=	Nominal Current – Normal Duty
I_{2hd}	=	Nominal Current – Heavy-Duty
I_{Max}	=	Maximum Current for Peak Overload
I_{2Max}	=	Maximum Output Current
I_C	=	Maximum Continuous Current



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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 date 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 reperform 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 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.



TERMS AND CONDITIONS OF SALE - Continued

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, judgement, 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 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.



TERMS AND CONDITIONS OF SALE - Continued

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 nor 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 in-execution of Seller's obligations hereunder, unless accepted in writing by Seller's authorized representative.

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.



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 1 st International Airport/Port in Canada.	FCA 1 st 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 1 st International Airport/Port in Canada.
	Options	DDP ground ¹	DDP ground ¹
Express order	Express Shipping	For guaranteed same day shipping. Book order prior to 3 PM est.	For guaranteed 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.

How to use these Price Pages

The ACS550 family of drives was designed to meet virtually every customer's application requirements. These Price Pages were developed to allow quick and easy selection of Standard ACS 550 products.

Discount Schedule

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

DISCOUNT SCHEDULE →

DS-A52 (BUS-ZF)	Type Code NEMA 1 UL Type 1	Nominal ratings			
		Normal Duty (CT) (110% I_{2N})		Heavy-duty (CT) (150% I_{2hd})	
		I_{2N} A	P_N HP	I_{2hd} A	P_{hd} HP
	ACS550-U1-04A6-2	4.6	1	3.5	0.75
	ACS550-U1-06A6-2	6.6	1.5	4.6	1
	ACS550-U1-07A5-2	7.5	2	6.6	1.5
	ACS550-U1-012A-2	11.8	3	7.5	2
	ACS550-U1-017A-2	16.7	5	11.8	3

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

For pricing on configurations that are not in this pricebook, please send your request to : CA-drives.rfq@abb.com

Application Considerations

Because of the variety of uses for the ACS550, those responsible for the application and control of these drives must satisfy themselves that all necessary steps have been taken to insure that they meet all performance and safety requirements regarding national and local laws, regulations, codes and standards. Unless otherwise noted, ACS550 products found in these price pages are designed to meet NEMA (National Electrical Manufacturers Association) standards. ACS550 products also carry third party approvals through UL, cUL and CSA. These listings are based on standard product and any exceptions to this will be noted in the appropriate section.

Selecting the Correct Drive Capacity

All ACS550 drives are current rated devices. The HP ratings provided are for reference only and are based on typical 4-pole motors at nominal voltages (NEC Table 430-150). If full motor torque is required, ensure the drive has a continuous current rating equal to, or greater than, the full load amp rating of the motor. Kilowatt (kW) ratings are provided where applicable and are based on IEC 4-pole motor ratings.

Standard Documentation

All ACS550 drives are shipped with a User's Manual. The User's Manual contains all necessary dimensional and installation drawings, generic wiring drawings, and all programming instructions.

Delivery

ABB is a worldwide AC Drive manufacturing organization. As a result, some items are not manufactured in the United States. Lead-times for ACS550 products are based on where the drive is manufactured and the size of the drive. Wall mount ACS550 drives through 150HP with input voltages of 230 through 600 VAC are typically manufactured in the United States. These ACS550s, without installed modifications, are forecast with availability's ranging from stock to four (4-5) weeks. Free standing floor mount ACS550 drives from 150 to 200 HP with input voltage of 480 VAC are manufactured in our US or European Manufacturing Facility. Lead times for these products, without installed modifications, are from stock to six (6) weeks. All ACS550s with installed options are scheduled and manufactured based upon manufacturing capacity. Please consult the factory when lead times for ACS550 products with installed options are required. For current lead times of all products, please contact your local ABB Sales Representative or log in to the www.abb.com/drives website.

1 HP to 100 HP @ 208 to 240V
1.5 HP to 200 HP @ 380 to 480V
2 HP to 150HP @ 500 to 600V

Overview

The ACS550 is an adjustable frequency AC drive that achieves the ultimate in flexible motor control performance. Offering three modes of motor control: V/Hz, Sensorless Vector and Flux Vector, the ACS550 performs accurate speed and torque control of any standard squirrel cage motor.

With drives ranging from 0.75 to 200 HP, the ACS550 series features an 'intuitively obvious' multi-lingual, full graphic display panel that also provides an assistant to aid users in start-up. The control panel can be mounted on the cover of the drive, or remotely, and can upload, store, and download parameters.

The ACS550 comes equipped with 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.


The ACS550 can be used for the simplest to the most demanding applications. Two integral option slots can be configured with additional relay outputs as well as a host of different communication bus adapters. An integral brake chopper is provided on all R1 and R2 frame size drives.

The ACS550 is available in both a Normal Duty Rating, and a Heavy Duty rating. The Normal Duty Rating has a 10% short term overload rating, and the Heavy Duty rating has a 50% short term overload rating for one (1) minute out of ten (10). Both ratings are capable of 180% of I_{2hd} for 2 seconds out of each minute.



Hardware Description

The ACS550 is available in several mounting configurations. A brief description and photo are provided below to facilitate model selection and understanding of what is offered with each standard product.

ACS550-U1	Base Drive
<p>The ACS550-U1 is a wall-mountable drive and is available from 0.75 to 100 HP in 240V, to 150 HP in 480V and 600V input voltages. The ACS550-U1 has six frame sizes (R1 to R6). The ACS550-U1 is available in a standard UL Type 1 (NEMA 1) or optional UL Type 12 (NEMA 12) enclosure and has a control panel for user interface, parameter adjustment and drive operation mounted on the front of the drive. The front section of the ACS550-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, or through the rear wall of a customer supplied enclosure using additional hardware, placing the rear section in a cooling air duct to minimize the heat inside the cabinet. In standard installations, the drive is mounted directly onto a wall and uses the provided conduit box. Conduit openings (knock-outs) are provided for bottom and side conduit entry. For mounting inside a customer supplied cabinet, the conduit box may be removed. R1 and R2 frames have built-in braking choppers.</p>	 <p data-bbox="1008 848 1390 877">NEMA 1 or NEMA 12 Wall Mount</p>

ACS550-PC & ACS550-PD

Drive with Disconnect

ACS550 Packaged Drive with Disconnect

ACS550-PC and PD packaged drives combine ACS550 AC drives with the disconnect arrangement of your choice in one coordinated, easy to install package. Packages are available with an input disconnect switch and fast acting, current limiting fuses (ACS550-PD) or an input circuit breaker (ACS550-PC). Units with a circuit breaker disconnect at and above ratings of 30 HP at 208/240V and 75 HP at 480 & 600V are also equipped with fast acting, drive input fuses to limit damage to the drive and provide for the possibility of drive repair in the unlikely event that a short circuit or ground fault should develop within the input power structure of the drive.

Disconnects are externally operable and interlocked with the enclosure door. The cover mounted disconnect operating handle may be padlocked in the off position with up to three padlocks. The multi-lingual, alphanumeric drive control panel is provided on the cover of NEMA 1 and NEMA 12 enclosed devices, and on the drive within NEMA 3R enclosed units.

NEMA 1 and NEMA 12 Vertical Construction

NEMA 1 and NEMA 12 enclosed ACS550-PC and PD Drives with Disconnect through 25 HP at 208/240V and 60 HP at 480 and 600V are provided in vertical wall mount enclosures. This unique construction provides a minimum footprint advantageous for use in overcrowded electrical rooms or mezzanines, or for direct mounting on machines or columns. Input and output conduit entry is at the bottom of the enclosure.

Oversized Wall Mount Enclosures

For NEMA 1 and NEMA 12 enclosed ACS550-PC and PD Drives with Disconnect from 30 to 100 HP at 208/240V, 75 to 150 HP at 480 & 600V, wall mounting enclosures are sized to accommodate the field addition of components that users frequently desire to include at these higher horsepower ratings. A removable conduit plate is provided at the top of the enclosure.

NEMA 1 and NEMA 12 Floor Mount Enclosures

From 200 HP to 550 HP at 480V, ACS550-PC enclosures will accommodate the field installation of additional components. Where additional enclosure panel space is required, an auxiliary enclosure section is available. A molded case circuit breaker provides the disconnect means function while fast acting, current limiting drive input fuses provide short circuit protection. A removable conduit mounting plate is provided at the top of the enclosure.

NEMA 3R Enclosures

For outdoor applications, the ACS550 Drive with Disconnect is available in NEMA 3R enclosures up to 100 HP at 208/240V and 150 HP at 480 & 600V. Construction is sheet steel with a tough powder coat paint finish for corrosion resistance. A 100 watt, thermostatically controlled space heater and thermostatic control of the force ventilated cooling system are provided as standard.



Vertical Construction



Oversized Wall Mount Enclosure



Floor Mount Enclosure

ACS550-CC

Drive with Bypass

ACS550 Packaged Drive with Bypass

The ACS550-CC is a complete Drive with Bypass Package that includes an ACS550 Adjustable Frequency Drive, a bypass function that allows the motor to be run at full voltage in the event the drive is shut down for service, a main disconnect means and branch circuit short circuit and ground fault protection. Complete, pre-engineered packages reduce time, effort and the cost of installing the popular drive bypass option.

The bypass function is configured entirely of standard industrial control components. It includes two electrically interlocked contactors, a motor overload relay, a control power transformer with primary and secondary fusing, and a cover mounted DRIVE-OFF-BYPASS selector switch.

Bypass is accomplished by means of the two contactors. One is the bypass contactor used to connect the motor directly to the power line. The other is the output contactor that disconnects the motor from the drive output when operating in the bypass mode. This prevents the "back feeding" that would occur if line voltage were applied to the drive output terminals. The drive output contactor and the bypass contactor are electrically interlocked to prevent simultaneous operation.

Bypass Motor Overload Protection

Motor overload protection for the bypass mode is provided by a motor overload relay connected in both the drive and bypass modes of operation. For motor full load currents through 80 amperes, the Motor Overload Relay is an adjustable trip, bimetallic overload relay with a class 20 trip characteristic. Above 80 amperes, the Motor Overload Relay is an adjustable trip electronic overload relay with selectable class 10, 20 or 30 trip characteristics.

Externally Operated Devices

ACS550 Drive W/ Bypass Packages include an input circuit breaker with a door mounted external operating handle that is interlocked with the enclosure door and lockable in the OFF position with up to three padlocks. The multi-lingual, alphanumeric drive control panel is mounted on the door of NEMA 1 and NEMA 12 enclosures, and on the drive within NEMA 3R enclosures. An optional drive service switch (+F267) isolates the drive from the power source for service and provides superior functionality to a three-contactor arrangement.

Drive Input Fuses Standard

Fast acting, current limiting drive input fuses are provided as standard to limit damage and allow for possible drive repair if a short circuit or ground fault should develop in the drive input bridge. This is particularly pertinent for drives at the higher ratings where it is generally more economical to repair rather than replace the drive. The drive fuses are also intended to provide for immediate operation of the bypass function after such a fault.

Enclosure Options

Drive with Bypass Packages are available in NEMA 1 and NEMA 12 enclosures through 100 HP at 208/240V, 400 HP at 480V and 150 HP at 600V. For outdoor applications, NEMA 3R enclosed packages are available through 100 HP at 208/240V and 150 HP at 480 & 600V. NEMA 3R enclosures are sheet steel construction with a tough powder coat paint finish for corrosion resistance and include a 100 watt, thermostatically controlled space heater and thermostatic control of the force ventilated cooling system as standard.



NEMA 1 Wall Mount



NEMA 1 Floor Mount



NEMA 3R Wall Mount

Definition of NEMA and IEC environmental ratings

Below is a summary of the rating definitions and recommendations for application of each Type supported by the ACS550 AC Drive product family.

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

Installation in a clean environment such as a clean room or in another enclosure with higher degree of protection

NEMA 12, UL Type 12

Indoor use primarily to provide a degree of protection against circulating dust, falling dirt, and dripping non-corrosive liquids. Does not protect against contamination from salt-laden air

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

Recommendation

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.

NEMA 3R, UL Type 3R

Either indoor or outdoor use to provide a degree of protection against falling dirt, rain, sleet, and snow; and that will be undamaged by the external formation of ice on the enclosure.

IP 2 4

- (2) Protected against solid foreign objects of 12.5mm diameter and greater
- (4) Water splashed against the enclosure from any direction shall have no harmful effects

Recommendation

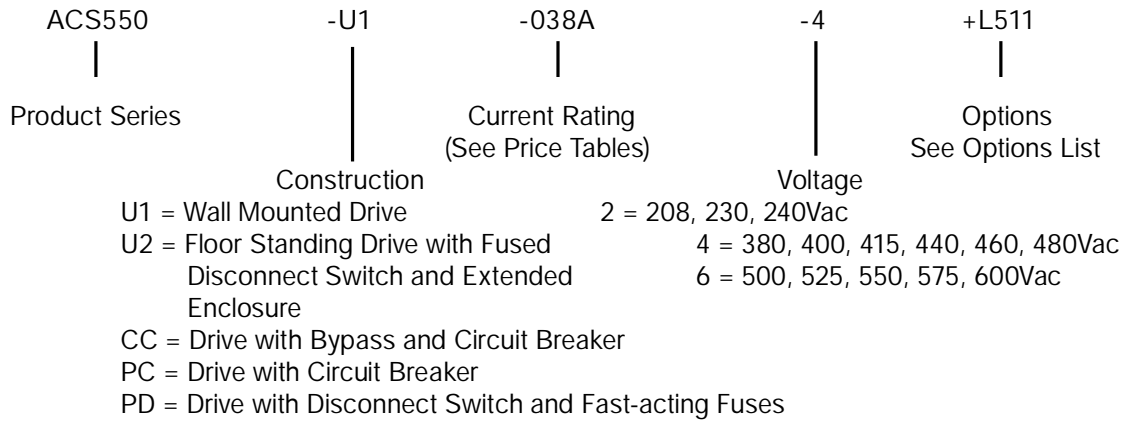
Installation in outdoor environments where rain and other precipitates are commonly present. Also suitable for indoor installation where dripping or splashing water is present. Not recommended where significant dust and contaminant particles are present.



Standard Drives

ACS550

Basic Type Code Information



Voltage	R1 Frame	R2 Frame	R3 Frame	R4 Frame	R5 Frame	R6 Frame	R7 Frame	R8 Frame
240Vac	04A6	024A	046A	075A		143A		
	06A6	031A	059A	088A		178A		
	07A5			114A		221A		
	012A					248A		
	017A							
480Vac	03A3	015A	031A	059A	125A	157A	196A	316A
	04A1	023A	038A	072A		180A	245A	368A
	06A9		045A	078A		246A		414A
	08A8			097A				486A
	012A							526A
								602A
							645A	
600Vac		02A7	022A	032A		077A		
		03A9	027A	041A		099A		
		06A1		052A		125A		
		09A0		062A		144A		
		011A						
	017A							

Ordering Information

To order an ACS550 drive, select the appropriate Type code shown in the selection guide for your input voltage, motor current, and drive construction desired. This Type code 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.

Example: ACS550-U1-08A8-4+B055 All field installable options must be ordered separately

When adding Plus Codes to an order, please provide them in Alphanumeric order.

Notes for product selection

General Notes

- I_{2N} : continuous base current at 40°C (104°F). Overload cycle 110% I_{2N} for 1 minute / 10 minutes allowed.
- I_{2hd} : continuous base current at 40°C (104°F). Overload cycle 150% I_{2hd} for 1 minute / 10 minutes allowed.
- 180% I_{2hd} continuous base current available for 2 seconds / 1 minute.
- Current ratings do not change with different supply voltages.
- The rated current of the ACS550 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 name plate 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 ACS550 drives are furnished with the advanced control panel.
- Control panels are cover mounted as standard on all ACS550 PC and PD packaged drives.
- Conduit entry:
 - ACS550-U1 models come with a US conduit box at the bottom. This box may be removed when the drive is installed in an enclosure.
 - ACS550-CC allows conduit entry at top and bottom for both entry and exit.
 - ACS550-PC and PD frames R1-R4 in NEMA 1 & 12, UL Type 1 & 12 allow conduit entry at the bottom.
 - ACS550-PC and PD frames R5-R8 in NEMA 1 & 12, UL Type 1 & 12 are supplied with a removable conduit plate at the top.
 - ACS550-PC and PD in NEMA 3R, UL Type 3R allow conduit entry at top and bottom for both entry and exit.
- NA: indicates the option is Not Available
- INCL: indicates the option is included in the standard price

Specific Notes

- ⁽¹⁾ For operation of ACS550 240V rated drives on single phase power, de-rate the output current by 50%. Only ACS550 240V product is UL listed for three phase and single phase input power.

ACS550 Specifications

Input Connection

Input Voltage (U ₁)	208/220/230/240 VAC 3-phase +/-10% 380/400/415/440/460/480 VAC 3-phase +/-10% 500/575/600 VAC 3-phase +/-10%
Input Frequency	48 to 63 Hz
Line Imbalance	Max +/-3% of nominal phase to phase input voltage
Fundamental Power Factor (cos ϕ)	0.98 (at nominal load)
Connection	U ₁ , V ₁ , W ₁

Output Connection

Output Voltage	0 to U ₁ , 3-phase symmetrical, U ₂ at the field weakening point
Output Frequency	-500 to +500 Hz
Frequency Resolution	0.01 Hz
Continuous Current	1.0 * I _{2N} (normal use) 1.0 * I _{2hd} (heavy-duty use)
Short Term Overload Capacity	1.1 * I _{2N} (1 min/10 min) 1.5 * I _{2hd} (1 min/10 min)
Peak Overload Capacity	180% of I _{2hd} for 2 seconds each minute
Base Motor Frequency Range	10 to 500 Hz
Switching Frequency	1, 4, or 8 kHz
Acceleration Time	0 to 1800 s
Deceleration Time	0 to 1800 s
Efficiency 98% at nominal power level	
Short Circuit Withstand Rating	100,000 AIC (UL) R1-R8
Connection	U ₂ , V ₂ , W ₂

Ambient Conditions, Operation

Air Temperature	-15° to 40°C (5° to 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 and 3C2
Solid Particles	3S2
Installation Site Altitude	0 to 1000 m (3300 ft) above sea level. At sites over 1000 m (3300 ft) above sea level, the maximum power is de-rated 1% for every additional 100 m (330 ft). If the installation site is higher than 2000 m (6600 ft) 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 (in Protective Shipping Package)

Air Temperature	-40° to 70°C (-40° to 158°F)
Relative Humidity	Less than 95%, no condensation allowed
Vibration	0.3 mm (0.01 in) 2 to 9 Hz, 2 m/sec ² (66 ft/sec ²) 9 to 200 Hz sinusoidal
Shock (IEC 60068-2-29)	Max 100 m/s ² (330 ft/s ²) 11 ms

Ambient Conditions, Transportation (in Protective Shipping Package)

Air Temperature	-40° to 70°C (-40° to 158°F)
Relative Humidity	Max 95%
Atmospheric Pressure	60 to 106 kPa (8.7 to 15.4 PSI)
Vibration	Max 3.5 mm (0.14 in) 2 to 9 Hz, Max 15 m/sec ² (49 ft/sec ²) 9 to 200 Hz sinusoidal
Shock (IEC 60068-2-29)	Max 100 m/s ² (330 ft/s ²) 11 ms
Free Fall	R1: 76 cm (30 in) R2: 61 cm (24 in) R3: 46 cm (18 in) R4: 31 cm (12 in) R5 & R6: 25 cm (10 in)

Cooling Information

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

ACS550 Specifications (continued)

Analog Inputs

Two Programmable Inputs	
Voltage Reference	0 (2) to 10 V, 250 kOhm, single ended
Current Reference	0 (4) to 20 mA, 100 Ohms, single ended
Potentiometer	10 VDC, 10 mA, 1K to 10 kOhms
Accuracy	+/- 1%
Input Updating Time	TBD
Terminal Block Size	2.3 mm ² / 14 AWG

Reference Power Supply

Voltage	+10 VDC, 1% at 25°C (77°F)
Maximum Load	10 mA
Applicable Potentiometer	1 kOhm to 10 kOhm
Terminal Block Size	2.3 mm ² / 14 AWG

Analog Outputs

Two Programmable Current Outputs	
Signal Level	0 (4) to 20 mA
Accuracy	+/-1% Full Scale Range at 25°C (77°F)
Maximum Load Impedance	500 Ohms
Output Updating Time	TBD
Terminal Block Sizes	2.3 mm ² / 14 AWG

Digital Inputs

Six Programmable Digital Inputs	
Isolation	Isolated as one group
Terminal Block Size	2.3 mm ² / 14 AWG
Signal Level	24 VDC, (10V Logic 0)
Input Current	15 mA at 24 VDC
Input Updating Time	TBD
Internal 24 VDC Supply for Digital Inputs	
Voltage	24 VDC, +/-10%
Maximum Current	250 mA
Protection	Short Circuit Proof

Relay Outputs

Three Programmable Relay Outputs	
Switching Capacity	8 A at 24 VDC or 250 VAC, 0.4 A at 120 VDC
Maximum Continuous Current	I _c = 2 A RMS
Contact Material	Silver Cadmium Oxide (AgCdO)
Isolation Test Voltage	4 kVAC, 1 minute
Terminal Block Size	Cables 0.3 to 3.3 mm ² (12 to 22 AWG)
Output Updating Time	100 ms

Protections

Single Phase	Protected (input & output)
Overvoltage Trip Limit	1.3 * U _{1nom}
Undervoltage Trip Limit	0.65 * U _{1nom}
Overtemperature (IGBT)	115°C (239°F)
Ground Fault	Protected
Microprocessor Fault	Protected
Motor Stall Protection	Protected
Motor Overtemperature Protection (I ² t)	Protected

U _{1nom}	= Nominal Line Voltage
U ₁	= Input Voltage
U ₂	= Output Voltage
U _N	= Nominal Motor Voltage
f _N	= Nominal Motor Frequency
I _{2N}	= Nominal Current – Normal Duty
P _N	= Power - Normal Duty (kW)
P _N	= Power - Normal Duty (HP)
I _{2hd}	= Nominal Current – Heavy-Duty
P _{hd}	= Power (kW) – Heavy-Duty
P _{hd}	= Power (HP) – Heavy-Duty
P _M	= Nominal Motor Power
I _M	= Nominal Motor Current



Standard Drives

ACS550

240V Ratings

3-phase supply voltage 208,230 or 240V - Power ratings are valid at nominal voltage, 208V ^{4,5}

DS-A52 (BUS-ZF)	Type Code NEMA 1 UL Type 1	Nominal ratings				Base Drive Frame	NEMA 1 UL Type 1 List Price	NEMA 12 UL Type 12 (+B055) List Price
		Normal Duty (CT) (110% I _{2N})		Heavy-duty (CT) (150% I _{2hd})				
		I _{2N} A	P _N HP	I _{2hd} A	P _{hd} HP			
Wall Mounted Drives	ACS550-U1-04A6-2	4.6	1	3.5	0.75	R1	930\$	1292\$
	ACS550-U1-06A6-2	6.6	1.5	4.6	1	R1	990\$	1410\$
	ACS550-U1-07A5-2	7.5	2	6.6	1.5	R1	1,114\$	1714\$
	ACS550-U1-012A-2	11.8	3	7.5	2	R1	1,150\$	1750\$
	ACS550-U1-017A-2	16.7	5	11.8	3	R1	1,388\$	2138\$
	ACS550-U1-024A-2	24.2	7.5	16.7	5	R2	1,733\$	2483\$
	ACS550-U1-031A-2	30.8	10	24.2	7.5	R2	2,173\$	2923\$
	ACS550-U1-046A-2	46.2	15	30.8	10	R3	2,442\$	3192\$
	ACS550-U1-059A-2	59.4	20	46.2	15	R3	3,024\$	3774\$
	ACS550-U1-075A-2	74.8	25	59.4	20	R4	3,788\$	4538\$
	ACS550-U1-088A-2	88	30	74.8	25	R4	4,654\$	5404\$
	ACS550-U1-114A-2	114	40	88	30	R4	5,662\$	6412\$
	ACS550-U1-143A-2	143	50	114	40	R6	6,790\$	7540\$
	ACS550-U1-178A-2	178	60	150	50	R6	8,334\$	9084\$
ACS550-U1-221A-2	221	75	178	60	R6	11,196\$	11946\$	
ACS550-U1-248A-2	248	100	192	75	R6	11,840\$	12590\$	

240V Ratings for drives with Input Disconnect

3-phase supply voltage 208,230 or 240V - Power ratings are valid at nominal voltage, 208V ^{4,5}

DS-A52 (BUS-ZF)	Type Code NEMA 1 UL Type 1	Nominal Ratings				Base Drive Frame	NEMA 1 UL Type 1 List Price	NEMA 12 UL Type 12 (+B055) List Price	NEMA 3R UL Type 3R (+B058) List Price
		Normal Duty (CT) (110% I _{2N})		Heavy-Duty (CT) (150% I _{2hd})					
		I _{2N} A	P _N HP	I _{2hd} A	P _{hd} HP				
Drive with Disconnect Switch and Drive Fuses	ACS550-PD-04A6-2	4.6	1	3.5	0.75	R1	1,830\$	2,150\$	2,711\$
	ACS550-PD-06A6-2	6.6	1.5	4.6	1	R1	1,890\$	2,310\$	2,815\$
	ACS550-PD-07A5-2	7.5	2	6.6	1.5	R1	2,114\$	2,534\$	2,954\$
	ACS550-PD-012A-2	11.8	3	7.5	2	R1	2,150\$	2,570\$	3,332\$
	ACS550-PD-017-A2	16.7	5	11.8	3	R1	2,388\$	2,808\$	3,391\$
	ACS550-PD-024A-2	24.2	7.5	16.7	5	R2	2,733\$	3,153\$	3,853\$
	ACS550-PD-031A-2	30.8	10	24.2	7.5	R2	3,173\$	3,593\$	4,393\$
	ACS550-PD-046A-2	46.2	15	30.8	10	R3	3,642\$	4,062\$	4,962\$
	ACS550-PD-059A-2	59.4	20	46.2	15	R3	4,224\$	4,644\$	5,644\$
	ACS550-PD-075A-2	74.8	25	59.4	20	R4	4,988\$	5,408\$	6,608\$
	ACS550-PD-088A-2	88	30	74.8	25	R4	6,054\$	6,474\$	7,974\$
	ACS550-PD-114A-2	114	40	88	30	R4	7,062\$	7,482\$	9,482\$
	ACS550-PD-143A-2	143	50	114	40	R6	8,190\$	8,610\$	11,110\$
	ACS550-PD-178A-2	178	60	150	50	R6	9,734\$	10,154\$	13,654\$
ACS550-PD-221A-2	221	75	178	60	R6	12,996\$	13,416\$	17,216\$	
ACS550-PD-248A-2	248	100	192	75	R6	13,640\$	14,060\$	18,060\$	

NOTES

- 1 I_{2N}: continuous base current with 110% overload for 1 minute / 10 minutes.
- 2 I_{2hd}: continuous base current with 150% overload for 1 minute / 10 minutes.
- 3 180% I_{2hd} continuous base current available for 2 seconds / minute.
- 4 Current ratings do not change with different supply voltages.
- 5 The rated current of the ACS550 must be greater than or equal to the rated motor current to achieve the rated motor power given in the table.
- 6 All -U1 models -04A6 through -248A come with a conduit box as standard.
- 7 Horsepower is based on NEMA motor ratings for 4-pole motors (1800 rpm). Check motor nameplate current for compatibility.
- 8 For operation on single phase power, de-rate the output current by 50%.



240V Ratings for Drive with Input Circuit Breaker Disconnect

3-phase supply voltage 208, 230 or 240 V - Power ratings are valid at nominal voltage, 208V

DS-A52 (BUS-ZF)	Type Code NEMA 1 UL Type 1	Nominal Ratings				Base Drive Frame	NEMA 1 UL Type 1 List Price	NEMA 12 UL Type 12 (+B055) List Price	NEMA 3R UL Type 3R (+B058) List Price
		Normal Duty (CT) (110% I _{2N})		Heavy-Duty (CT) (150% I _{2hd})					
		I _{2N} A	P _N HP	I _{2hd} A	P _{hd} HP				
Drive with Circuit Breaker Disconnect	ACS550-PC-04A6-2	4.6	1	3.5	0.75	R1	2,010\$	2,250\$	3,322\$
	ACS550-PC-06A6-2	6.6	1.5	4.6	1	R1	2,063\$	2,310\$	3,494\$
	ACS550-PC-07A5-2	7.5	2	6.6	1.5	R1	2,166\$	2,423\$	3,941\$
	ACS550-PC-012A-2	11.8	3	7.5	2	R1	2,470\$	2,764\$	4,038\$
	ACS550-PC-017-A2	16.7	5	11.8	3	R1	2,648\$	2,962\$	4,511\$
	ACS550-PC-024A-2	24.2	7.5	16.7	5	R2	3,114\$	3,484\$	4,909\$
	ACS550-PC-031A-2	30.8	10	24.2	7.5	R2	3,716\$	3,976\$	5,040\$
	ACS550-PC-046A-2	46.2	15	30.8	10	R3	4,180\$	4,420\$	5,184\$
	ACS550-PC-059A-2	59.4	20	46.2	15	R3	4,521\$	4,830\$	6,092\$
	ACS550-PC-075A-2	74.8	25	59.4	20	R4	5,115\$	5,482\$	7,310\$
	ACS550-PC-088A-2	88	30	74.8	25	R4	6,142\$	6,570\$	8,688\$
	ACS550-PC-114A-2	114	40	88	30	R4	8,002\$	8,562\$	11,120\$
	ACS550-PC-143A-2	143	50	114	40	R6	9,444\$	10,105\$	13,330\$
	ACS550-PC-178A-2	178	60	150	50	R6	11,245\$	12,032\$	17,512\$
	ACS550-PC-221A-2	221	75	178	60	R6	14,135\$	15,145\$	19,208\$
ACS550-PC-248A-2	248	100	192	75	R6	16,202\$	17,337\$	21,207\$	

240V Ratings for Drive with Bypass and Circuit Breaker Disconnect

3-phase supply voltage 208, 230 or 240 V - Power ratings are valid at nominal voltage, 208V

DS-A52 (BUS-ZF)	Type Code NEMA 1 UL Type 1	Nominal Ratings				Base Drive Frame	NEMA 1 UL Type 1 List Price	NEMA 12 UL Type 12 (+B055) List Price	NEMA 3R UL Type 3R (+B058) List Price	Service Switch +F267 Adder
		Normal Duty (CT) (110% I _{2N})		Heavy-Duty (CT) (150% I _{2hd})						
		I _{2N} A	P _N HP	I _{2hd} A	P _{hd} HP					
Drive with Bypass and Circuit Breaker Disconnect	ACS550-CC-04A6-2	4.6	1	3.5	0.75	R1	3,221\$	3,915\$	4,198\$	150\$
	ACS550-CC-06A6-2	6.6	1.5	4.6	1	R1	3,300\$	3,999\$	4,355\$	150\$
	ACS550-CC-07A5-2	7.5	2	6.6	1.5	R1	3,605\$	4,255\$	4,747\$	166\$
	ACS550-CC-012A-2	11.8	3	7.5	2	R1	3,886\$	4,585\$	5,117\$	166\$
	ACS550-CC-017A-2	16.7	5	11.8	3	R1	4,084\$	4,820\$	5,379\$	200\$
	ACS550-CC-024A-2	24.2	7.5	16.7	5	R2	4,483\$	5,291\$	5,905\$	215\$
	ACS550-CC-031A-2	30.8	10	24.2	7.5	R2	4,850\$	5,724\$	6,388\$	215\$
	ACS550-CC-046A-2	46.2	15	30.8	10	R3	5,110\$	6,038\$	6,739\$	240\$
	ACS550-CC-059A-2	59.4	20	46.2	15	R3	5,568\$	6,559\$	7,320\$	265\$
	ACS550-CC-075A-2	74.8	25	59.4	20	R4	6,576\$	7,792\$	8,696\$	360\$
	ACS550-CC-088A-2	88	30	74.8	25	R4	7,680\$	9,485\$	10,856\$	360\$
	ACS550-CC-114A-2	114	40	88	30	R4	9,450\$	11,570\$	12,912\$	675\$
	ACS550-CC-143A-2	143	50	114	40	R6	11,272\$	13,800\$	16,585\$	675\$
	ACS550-CC-178A-2	178	60	150	50	R6	13,026\$	17,785\$	19,165\$	965\$
	ACS550-CC-221A-2	221	75	178	60	R6	14,558\$	19,875\$	21,418\$	1,125\$
ACS550-CC-248A-2	248	100	192	75	R6	16,380\$	22,367\$	24,104\$	1,270\$	

NOTES

- 1 I_{2N}: continuous base current with 110% overload for 1 minute / 10 minutes.
- 2 I_{2hd}: continuous base current with 150% overload for 1 minute / 10 minutes.
- 3 180% I_{2hd} continuous base current available for 2 seconds / minute.
- 4 Current ratings do not change with different supply voltages.
- 5 The rated current of the ACS550 must be greater than or equal to the rated motor current to achieve the rated motor power given in the table.
- 6 All -U1 models -04A6 through -248A come with a conduit box as standard.
- 7 Horsepower is based on NEMA motor ratings for 4-pole motors (1800 rpm). Check motor nameplate current for compatibility.
- 8 For operation on single phase power, de-rate the output current by 50%.



Standard Drives

ACS550

380V Ratings

3-phase supply voltage 380, 400, 415, 440, 460 or 480 V - Power ratings are valid at nominal voltage, 400 V ^(4, 5)

DS-A54 (BUS-ZG)	Type Code UL Type 1 (NEMA 1)	Nominal ratings				Base Drive Frame	NEMA 1	NEMA 12
		Normal Duty (CT) (110% I_{2N})		Heavy-duty (CT) (150% I_{2hd})			UL Type 1	UL Type 12 (+B055)
		I_{2N} A	P_N KW	I_{2hd} A	P_{hd} KW		List Price	List Price
Wall Mounted Drives	ACS550-U1-03A3-4	3.3	1.1	2.4	0.75	R1	982\$	1,582\$
	ACS550-U1-04A1-4	4.1	1.5	3.3	1.1	R1	1,164\$	1,764\$
	ACS550-U1-06A9-4	6.9	2.2	5.4	1.5	R1	1,300\$	1,902\$
	ACS550-U1-08A8-4	8.8	4	6.9	3	R1	1,562\$	2,162\$
	ACS550-U1-012A-4	11.9	5.5	8.8	4	R1	1,672\$	2,272\$
	ACS550-U1-015A-4	15.4	7.5	11.9	5.5	R2	2,154\$	2,854\$
	ACS550-U1-023A-4	23	11.0	15.4	7.5	R2	2,332\$	3,082\$
	ACS550-U1-031A-4	31	15	23	11	R3	2,632\$	3,382\$
	ACS550-U1-038A-4	38	18.5	31	15	R3	3,176\$	3,926\$
	ACS550-U1-045A-4	44	22	38	18.5	R3	3,970\$	4,720\$
	ACS550-U1-059A-4	59	30	44	22	R4	4,706\$	5,456\$
	ACS550-U1-072A-4	72	37	59	30	R4	5,460\$	6,210\$
	ACS550-U1-078A-4	77	41	65	37	R4	6,724\$	7,474\$
	ACS550-U1-097A-4	96	45	77	41	R4	8,140\$	8,890\$
	ACS550-U1-125A-4	124	55	96	45	R5	10,401\$	11,151\$
ACS550-U1-157A-4	157	75	124	55	R6	12,150\$	12,900\$	
ACS550-U1-180A-4	180	90	156	75	R6	12,598\$	13,348\$	
ACS550-U1-246A-4	245	132	192	110	R6	16,400\$	17,150\$	
Higher Power available on request								

NOTES

- I_{2N} : continuous base current with 110% overload for 1 minute / 10 minutes.
- I_{2hd} : continuous base current with 150% overload for 1 minute / 10 minutes.
- 180% I_{hd} continuous base current available for 2 seconds / 1 minute.
- Current ratings do not change with different supply voltages.
- The rated current of the ACS550 must be greater than or equal to the rated motor current to achieve the rated motor power given in the table.
- Kilowatts are based on IEC motor ratings for most 4 and 6-pole motors (1500, 1000 rpm). Check motor nameplate current for compatibility.



Standard Drives

ACS550

480V Ratings

3-phase supply voltage 380, 400, 415, 440, 460 or 480V - Power ratings are valid at nominal voltage, 480V ^(4, 5)

DS-A54 (BUS-ZG)	Type Code UL Type 1 (NEMA 1)	Nominal ratings				Base Drive Frame	NEMA 1 UL Type 1 List Price	NEMA 12 UL Type 12 (+B055) List Price
		Normal Duty (CT) (110% I_{2N})		Heavy-duty (CT) (150% I_{2hd})				
		I_{2N} A	P_N HP	I_{2hd} A	P_{hd} HP			
Wall Mounted Drives	ACS550-U1-03A3-4	3.3	1.5	2.4	1	R1	982\$	1,582\$
	ACS550-U1-04A1-4	4.1	2	3.3	1.5	R1	1,164\$	1,764\$
	ACS550-U1-06A9-4	6.9	3	5.4	2	R1	1,300\$	1,902\$
	ACS550-U1-08A8-4	8.8	5	6.9	3	R1	1,562\$	2,162\$
	ACS550-U1-012A-4	11.9	7.5	8.8	5	R1	1,672\$	2,272\$
	ACS550-U1-015A-4	15.4	10	11.9	7.5	R2	2,154\$	2,854\$
	ACS550-U1-023A-4	23	15	15.4	10	R2	2,332\$	3,082\$
	ACS550-U1-031A-4	31	20	23	15	R3	2,632\$	3,382\$
	ACS550-U1-038A-4	38	25	31	20	R3	3,176\$	3,926\$
	ACS550-U1-045A-4	44	30	38	25	R3	3,970\$	4,720\$
	ACS550-U1-059A-4	59	40	44	30	R4	4,706\$	5,456\$
	ACS550-U1-072A-4	72	50	59	40	R4	5,460\$	6,210\$
	ACS550-U1-078A-4	77	60	65	50	R4	6,724\$	7,474\$
	ACS550-U1-097A-4	96	75	77	60	R4	8,140\$	8,890\$
	ACS550-U1-125A-4	124	100	96	75	R5	10,401\$	11,151\$
ACS550-U1-157A-4	157	125	124	100	R6	12,150\$	12,900\$	
ACS550-U1-180A-4	180	150	156	125	R6	12,598\$	13,348\$	
ACS550-U1-246A-4	245	200	192	150	R6	16,400\$	17,150\$	
Higher Power available on request								

NOTES

- I_{2N} : continuous base current with 110% overload for 1 minute / 10 minutes.
- I_{2hd} : continuous base current with 150% overload for 1 minute / 10 minutes.
- 180% I_{hd} continuous base current available for 2 seconds / 1 minute.
- Current ratings do not change with different supply voltages.
- The rated current of the ACS550 must be greater than or equal to the rated motor current to achieve the rated motor power given in the table.
- Horsepower is based on NEMA motor ratings for most 4-pole motors (1800 rpm). Check motor nameplate current for compatibility.



Standard Drives

ACS550

480V Ratings for Drive with Input Disconnect

3-phase supply voltage 380, 400, 415, 440, 460 or 480V - Power ratings are valid at nominal voltage, 480V ^(4, 5)

DS-A54 (BUS-ZG)	Type Code NEMA 1 UL Type 1	Nominal Ratings				Base Drive Frame	NEMA 1 UL Type 1 List Price	NEMA 12 UL Type 12 (+B055) List Price	NEMA 3R UL Type 3R (+B058) List Price
		Normal Duty (CT) (110% I _{2n})		Heavy-Duty (CT) (150% I _{2hd})					
		I _{2N} A	P _N HP	I _{2hd} A	P _{hd} HP				
Drive with Disconnect Switch and Drive Fuses	ACS550-PD-03A3-4	3.3	1.5	2.4	1	R1	1,882\$	2,302\$	3,063\$
	ACS550-PD-04A1-4	4.1	2	3.3	1.5	R1	2,064\$	2,484\$	3,190\$
	ACS550-PD-06A9-4	6.9	3	5.4	2	R1	2,200\$	2,620\$	3,465\$
	ACS550-PD-08A8-4	8.8	5	6.9	3	R1	2,462\$	2,882\$	3,575\$
	ACS550-PD-012A-4	11.9	7.5	8.8	5	R1	2,572\$	2,992\$	3,685\$
	ACS550-PD-015A-4	15.4	10	11.9	7.5	R2	3,154\$	3,574\$	3,938\$
	ACS550-PD-023A-4	23	15	15.4	10	R2	3,332\$	3,752\$	4,159\$
	ACS550-PD-031A-4	31	20	23	15	R3	3,832\$	4,252\$	4,517\$
	ACS550-PD-038A-4	38	25	31	20	R3	4,376\$	4,796\$	5,272\$
	ACS550-PD-045A-4	44	30	38	25	R3	5,170\$	5,590\$	6,083\$
	ACS550-PD-059A-4	59	40	44	30	R4	6,106\$	6,526\$	7,225\$
	ACS550-PD-072A-4	72	50	59	40	R4	6,680\$	7,280\$	8,460\$
	ACS550-PD-078A-4	77	60	65	50	R4	8,124\$	8,544\$	9,784\$
	ACS550-PD-097A-4	96	75	77	60	R4	9,540\$	9,960\$	11,630\$
	ACS550-PD-125A-4	124	100	96	75	R5	12,201\$	12,621\$	13,471\$
	ACS550-PD-157A-4	157	125	124	100	R6	13,950\$	14,370\$	16,071\$
ACS550-PD-180A-4	180	150	156	125	R6	14,598\$	16,818\$	20,124\$	
ACS550-PD-246A-4	245	200	192	150	R6	18,400\$	20,620\$	24,750\$	

480V Ratings for Drive with Circuit Breaker Disconnect

3-phase supply voltage 380, 400, 415, 440, 460 or 480V - Power ratings are valid at nominal voltage, 480V ^(4, 5)

DS-A54 (BUS-ZG)	Type Code NEMA 1 UL Type 1	Nominal Ratings				Base Drive Frame	NEMA 1 UL Type 1 List Price	NEMA 12 UL Type 12 (+B055) List Price	NEMA 3R UL Type 3R (+B058) List Price
		Normal Duty (CT) (110% I _{2n})		Heavy-Duty (CT) (150% I _{2hd})					
		I _{2N} A	P _N HP	I _{2hd} A	P _{hd} HP				
Drive with Circuit Breaker Disconnect	ACS550-PC-03A3-4	3.3	1.5	2.4	1	R1	2,136\$	2,565\$	3,720\$
	ACS550-PC-04A1-4	4.1	2	3.3	1.5	R1	2,299\$	2,773\$	3,780\$
	ACS550-PC-06A9-4	6.9	3	5.4	2	R1	2,380\$	2,868\$	3,885\$
	ACS550-PC-08A8-4	8.8	5	6.9	3	R1	2,445\$	2,950\$	3,990\$
	ACS550-PC-012A-4	11.9	7.5	8.8	5	R1	2,683\$	3,232\$	4,095\$
	ACS550-PC-015A-4	15.4	10	11.9	7.5	R2	3,005\$	3,626\$	4,280\$
	ACS550-PC-023A-4	23	15	15.4	10	R2	3,662\$	4,418\$	4,802\$
	ACS550-PC-031A-4	31	20	23	15	R3	4,208\$	5,076\$	5,258\$
	ACS550-PC-038A-4	38	25	31	20	R3	4,983\$	6,010\$	6,198\$
	ACS550-PC-045A-4	44	30	38	25	R3	5,800\$	6,998\$	7,203\$
	ACS550-PC-059A-4	59	40	44	30	R4	6,955\$	8,388\$	8,168\$
	ACS550-PC-072A-4	72	50	59	40	R4	8,490\$	10,242\$	10,020\$
	ACS550-PC-078A-4	77	60	65	50	R4	9,988\$	12,050\$	11,787\$
	ACS550-PC-097A-4	96	75	77	60	R4	11,440\$	13,800\$	13,910\$
	ACS550-PC-125A-4	124	100	96	75	R5	13,840\$	16,695\$	16,333\$
	ACS550-PC-157A-4	157	125	124	100	R6	16,270\$	19,652\$	17,095\$
	ACS550-PC-180A-4	180	150	156	125	R6	20,300\$	24,344\$	22,088\$
	ACS550-PC-246A-4	245	200	192	150	R6	26,500\$	31,968\$	26,775\$
	ACS550-PC-316A-4	316	250	240	200	R8	Consult Factory	Consult Factory	Consult Factory
	ACS550-PC-368A-4	368	300	302	250	R8			
ACS550-PC-414A-4	414	350	368	300	R8				
ACS550-PC-486A-4	486	400	414	350	R8				
ACS550-PC-526A-4	526	450	477	400	R8				
ACS550-PC-602A-4	602	500	515	450	R8				
ACS550-PC-645A-4	645	550	590	500	R8				



Standard Drives
ACS550

480V Ratings Drive with Bypass and Circuit Breaker Disconnect

3-phase supply voltage 380, 400, 415, 440, 460 or 480V - Power ratings are valid at nominal voltage, 480V

DS-A54 (BUS-ZG)	Type Code NEMA 1 UL Type 1	Nominal Ratings				Base Drive Frame	NEMA 1 UL Type 1 List Price	NEMA 12 UL Type 12 (+B055) List Price	NEMA 3R UL Type 3R (+B058) List Price	Service Switch +F267
		Normal Duty (CT) (110% I _{2N})		Heavy-Duty (CT) (150% I _{2hd})						
		I _{2N} A	P _N HP	I _{2hd} A	P _{hd} HP					
Drive with Bypass and Circuit Breaker Disconnect	ACS550-CC-03A3-4	3.3	1.5	2.4	1	R1	3,381\$	3,744\$	4,076\$	150\$
	ACS550-CC-04A1-4	4.1	2	3.3	1.5	R1	3,578\$	3,942\$	4,292\$	150\$
	ACS550-CC-06A9-4	6.9	3	5.4	2	R1	3,645\$	4,022\$	4,380\$	166\$
	ACS550-CC-08A8-4	8.8	5	6.9	3	R1	3,724\$	4,102\$	4,466\$	166\$
	ACS550-CC-012A-4	11.9	7.5	8.8	5	R1	3,925\$	4,324\$	4,708\$	166\$
	ACS550-CC-015A-4	15.4	10	11.9	7.5	R2	4,250\$	4,682\$	5,098\$	200\$
	ACS550-CC-023A-4	23	15	15.4	10	R2	4,922\$	5,430\$	5,911\$	215\$
	ACS550-CC-031A-4	31	20	23	15	R3	5,325\$	5,868\$	6,390\$	215\$
	ACS550-CC-038A-4	38	25	31	20	R3	6,292\$	6,932\$	7,548\$	240\$
	ACS550-CC-045A-4	44	30	38	25	R3	6,888\$	7,600\$	8,277\$	240\$
	ACS550-CC-059A-4	59	40	44	30	R4	7,802\$	8,612\$	9,378\$	265\$
	ACS550-CC-072A-4	72	50	59	40	R4	9,488\$	10,464\$	11,394\$	360\$
	ACS550-CC-078A-4	77	60	65	50	R4	11,073\$	12,200\$	13,284\$	360\$
	ACS550-CC-097A-4	96	75	77	60	R4	12,535\$	14,346\$	15,620\$	525\$
	ACS550-CC-125A-4	124	100	96	75	R5	14,320\$	16,388\$	17,845\$	710\$
	ACS550-CC-157A-4	157	125	124	100	R6	16,778\$	19,110\$	20,809\$	710\$
	ACS550-CC-180A-4	180	150	156	125	R6	21,252\$	24,234\$	26,389\$	1,025\$
	ACS550-CC-246A-4	245	200	192	150	R6	26,890\$	30,774\$	33,508\$	1,300\$
	ACS550-CC-316A-4	316	250	240	200	R8				
	ACS550-CC-368A-4	368	300	302	250	R8	Consult Factory	Consult Factory	Consult Factory	
ACS550-CC-414A-4	414	350	368	300	R8					
ACS550-CC-486A-4	486	400	414	350	R8					

NOTES

- 1 I_{2N}: continuous base current with 110% overload for 1 minute / 10 minutes.
- 2 I_{2hd}: continuous base current with 150% overload for 1 minute / 10 minutes.
- 3 180% I_{hd} continuous base current available for 2 seconds / 1 minute.
- 4 Current ratings do not change with different supply voltages.
- 5 The rated current of the ACS550 must be greater than or equal to the rated motor current to achieve the rated motor power given in the table.
- 6 Horsepower is based on NEMA motor ratings for most 4-pole motors (1800 rpm). Check motor nameplate current for compatibility.



Standard Drives

ACS550

600V Ratings

3-phase supply voltage 500, 575, 600 V - Power ratings are valid at nominal voltage, 575 V ^(4, 5)

DS-A57 (BUS-ZI)	Type Code UL Type 1 (NEMA 1)	Nominal ratings				Base Drive Frame	UL Type 1 NEMA 1 (IP 21) List Price	UL Type 12 NEMA 12 (IP 54) (+B055) List Price
		Normal Duty (CT) (110% I _{2N})		Heavy-duty (CT) (150% I _{2hd})				
		I _{2N} A	P _N HP	I _{2hd} A	P _{hd} HP			
Wall Mounted Drives	ACS550-U1-02A7-6	2.7	2	2.4	1.5	R2	1,252\$	1,892\$
	ACS550-U1-03A9-6	3.9	3	2.7	2	R2	1,311\$	1,951\$
	ACS550-U1-06A1-6	6.1	5	3.9	3	R2	1,422\$	2,052\$
	ACS550-U1-09A0-6	9	7.5	6.1	5	R2	1,692\$	2,282\$
	ACS550-U1-011A-6	11	10	9	7.5	R2	1,947\$	2,627\$
	ACS550-U1-017A-6	17	15	11	10	R2	2,420\$	3,190\$
	ACS550-U1-022A-6	22	20	17	15	R3	2,872\$	3,672\$
	ACS550-U1-027A-6	27	25	22	20	R3	3,467\$	4,367\$
	ACS550-U1-032A-6	32	30	27	25	R4	4,470\$	5,370\$
	ACS550-U1-041A-6	41	40	32	30.0	R4	5,554\$	6,454\$
	ACS550-U1-052A-6	52	50	41	40	R4	6,765\$	7,665\$
	ACS550-U1-062A-6	62	60	52	50	R4	7,803\$	8,703\$
	ACS550-U1-077A-6	77	75	62	60	R6	9,222\$	10,222\$
	ACS550-U1-099A-6	99	100	77	75	R6	10,669\$	11,669\$
ACS550-U1-125A-6	125	125	99	100	R6	12,944\$	13,944\$	
ACS550-U1-144A-6	144	150	125	125	R6	15,048\$	16,048\$	

600V Ratings for Drive with Input Disconnect

3-phase supply voltage 500, 575, 600 V - Power ratings are valid at nominal voltage, 575 V ^(4, 5)

DS-A57 (BUS-ZI)	Type Code NEMA 1 UL Type 1	Nominal Ratings				Base Drive Frame	NEMA 1 UL Type 1 List Price	NEMA 12 UL Type 12 (+B055) List Price	NEMA 3R UL Type 3R (+B058) List Price
		Normal Duty (CT) (110% I _{2N})		Heavy-Duty (CT) (150% I _{2hd})					
		I _{2N} A	P _N HP	I _{2hd} A	P _{hd} HP				
Drive with Disconnect Switch and Drive Fuses	ACS550-PD-02A7-6	2.7	2	2.4	1.5	R2	1,908\$	2,038\$	2,958\$
	ACS550-PD-03A9-6	3.9	3	2.7	2	R2	1,959\$	2,095\$	3,111\$
	ACS550-PD-06A1-6	6.1	5	3.9	3	R2	2,060\$	2,203\$	3,264\$
	ACS550-PD-09A0-6	9	7.5	6.1	5	R2	2,290\$	2,458\$	3,520\$
	ACS550-PD-011A-6	11	10	9	7.5	R2	2,650\$	2,824\$	3,825\$
	ACS550-PD-017A-6	17	15	11	10	R2	3,195\$	3,416\$	4,052\$
	ACS550-PD-022A-6	22	20	17	15	R3	3,652\$	3,906\$	4,595\$
	ACS550-PD-027A-6	27	25	22	20	R3	4,338\$	4,645\$	5,399\$
	ACS550-PD-032A-6	32	30	27	25	R4	5,050\$	5,440\$	6,080\$
	ACS550-PD-041A-6	41	40	32	30	R4	6,008\$	6,428\$	7,248\$
	ACS550-PD-052A-6	52	50	41	40	R4	7,362\$	7,876\$	8,498\$
	ACS550-PD-062A-6	62	60	52	50	R4	8,668\$	9,275\$	10,010\$
	ACS550-PD-077A-6	77	75	62	60	R6	9,898\$	10,590\$	11,737\$
	ACS550-PD-099A-6	99	100	77	75	R6	11,628\$	12,463\$	13,380\$
ACS550-PD-125A-6	125	125	99	100	R6	13,464\$	14,506\$	15,505\$	
ACS550-PD-144A-6	144	150	125	125	R6	16,160\$	17,303\$	18,666\$	

NOTES

- I_{2N}: continuous base current with 110% overload for 1 minute / 10 minutes.
- I_{2hd}: continuous base current with 150% overload for 1 minute / 10 minutes.
- 180% I_{hd} continuous base current available for 2 seconds / 1 minute.
- Current ratings do not change with different supply voltages.
- The rated current of the ACS550 must be greater than or equal to the rated motor current to achieve the rated motor power given in the table.
- Horsepower is based on NEMA motor ratings for most 4-pole motors (1800 rpm). Check motor nameplate current for compatibility.



600V Ratings for Drive with Circuit Breaker Disconnect

3-phase supply voltage 500, 575, 600 V - Power ratings are valid at nominal voltage, 575 V ^(4, 5)

DS-A57 (BUS-ZI)	Type Code NEMA 1 UL Type 1	Nominal Ratings				Base Drive Frame	NEMA 1 UL Type 1 List Price	NEMA 12 UL Type 12 (+B055) List Price	NEMA 3R UL Type 3R (+B058) List Price
		Normal Duty (CT) (110% I _{2N})		Heavy-Duty (CT) (150% I _{2hd})					
		I _{2N} A	P _N HP	I _{2hd} A	P _{hd} HP				
Drive with Circuit Breaker Disconnect	ACS550-PC-02A7-6	2.7	2	2.4	1.5	R2	2,468\$	2,650\$	4,027\$
	ACS550-PC-03A9-6	3.9	3	2.7	2	R2	2,590\$	2,763\$	4,171\$
	ACS550-PC-06A1-6	6.1	5	3.9	3	R2	2,676\$	2,865\$	4,223\$
	ACS550-PC-09A0-6	9	7.5	6.1	5	R2	2,950\$	3,156\$	4,303\$
	ACS550-PC-011A-6	11	10	9	7.5	R2	3,317\$	3,550\$	4,577\$
	ACS550-PC-017A-6	17	15	11	10	R2	4,064\$	4,347\$	5,226\$
	ACS550-PC-022A-6	22	20	17	15	R3	4,688\$	5,015\$	5,688\$
	ACS550-PC-027A-6	27	25	22	20	R3	5,573\$	5,962\$	6,744\$
	ACS550-PC-032A-6	32	30	27	25	R4	6,500\$	6,959\$	7,862\$
	ACS550-PC-041A-6	41	40	32	30	R4	7,800\$	8,357\$	9,436\$
	ACS550-PC-052A-6	52	50	41	40	R4	9,570\$	10,240\$	11,078\$
	ACS550-PC-062A-6	62	60	52	50	R4	11,270\$	12,056\$	13,044\$
	ACS550-PC-077A-6	77	75	62	60	R6	12,865\$	13,767\$	15,288\$
	ACS550-PC-099A-6	99	100	77	75	R6	15,575\$	16,667\$	18,032\$
	ACS550-PC-125A-6	125	125	99	100	R6	17,430\$	18,740\$	18,883\$
ACS550-PC-144A-6	144	150	125	125	R6	21,020\$	22,494\$	24,336\$	

600V Ratings Drive with Bypass and Circuit Breaker Disconnect

3-phase supply voltage 500, 575, 600 V - Power ratings are valid at nominal voltage, 575 V ^(4, 5)

DS-A57 (BUS-ZI)	Type Code NEMA 1 UL Type 1	Nominal Ratings				Base Drive Frame	NEMA 1 UL Type 1 List Price	NEMA 12 UL Type 12 (+B055) List Price	NEMA 3R UL Type 3R (+B058) List Price	Service Switch +F267
		Normal Duty (CT) (110% I _{2N})		Heavy-Duty (CT) (150% I _{2hd})						
		I _{2N} A	P _N HP	I _{2hd} A	P _{hd} HP					
Drive with Bypass and Circuit Breaker Disconnect	ACS550-CC-02A7-6	2.7	2	2.4	1.5	R2	3,094\$	3,826\$	4,455\$	150\$
	ACS550-CC-03A9-6	3.9	3	2.7	2	R2	3,227\$	3,985\$	4,540\$	166\$
	ACS550-CC-06A1-6	6.1	5	3.9	3	R2	3,310\$	4,078\$	4,649\$	166\$
	ACS550-CC-09A0-6	9	7.5	6.1	5	R2	3,519\$	4,320\$	5,030\$	166\$
	ACS550-CC-011A-6	11	10	9	7.5	R2	3,848\$	4,701\$	5,275\$	200\$
	ACS550-CC-017A-6	17	15	11	10	R2	4,253\$	5,635\$	6,162\$	215\$
	ACS550-CC-022A-6	22	20	17	15	R3	4,729\$	5,957\$	6,737\$	215\$
	ACS550-CC-027A-6	27	25	22	20	R3	5,536\$	6,777\$	7,892\$	240\$
	ACS550-CC-032A-6	32	30	27	25	R4	6,815\$	7,915\$	9,218\$	240\$
	ACS550-CC-041A-6	41	40	32	30	R4	7,670\$	8,905\$	10,370\$	265\$
	ACS550-CC-052A-6	52	50	41	40	R4	8,920\$	10,360\$	12,066\$	360\$
	ACS550-CC-062A-6	62	60	52	50	R4	10,140\$	11,755\$	13,713\$	360\$
	ACS550-CC-077A-6	77	75	62	60	R6	11,860\$	13,844\$	15,451\$	525\$
	ACS550-CC-099A-6	99	100	77	75	R6	14,110\$	16,468\$	18,380\$	710\$
	ACS550-CC-125A-6	125	125	99	100	R6	15,702\$	18,328\$	20,456\$	710\$
ACS550-CC-144A-6	144	150	125	125	R6	20,255\$	23,643\$	26,390\$	1,025\$	

NOTES

- 1 I_{2N}: continuous base current with 110% overload for 1 minute / 10 minutes.
- 2 I_{2hd}: continuous base current with 150% overload for 1 minute / 10 minutes.
- 3 180% I_{hd} continuous base current available for 2 seconds / 1 minute.
- 4 Current ratings do not change with different supply voltages.
- 5 The rated current of the ACS550 must be greater than or equal to the rated motor current to achieve the rated motor power given in the table.
- 6 Horsepower is based on NEMA motor ratings for most 4-pole motors (1800 rpm). Check motor nameplate current for compatibility.



DS-OPT (BUS-ZP)	Description	Field Kit Part No.	List Price
Input/Output Options			
NOTE: The ACS550 has two (2) option slots marked Slot 1 and Slot 2. The Relay Output Extension and Pulse Encoder Interface use Slot 1 for installation. Only one of these modules may be installed. All Fieldbus Adapters and the 115/230V Digital Interface use Slot 2 for installation. Only one adapter may be installed.			
Relay Output Extension	The Relay Output Extension module offers three (3) Form C relay outputs numbered RO 4, 5 and 6, rated 2 A maximum current. Switching capacity is 6 A (24 VDC resistive), 1500 VA (250 VAC), Each relay is galvanically isolated from each other (2.5 kVAC, 1 minute). Each relay is programmable,	OREL-01-KIT	489\$
Pulse Encoder Interface	The Pulse Encoder Interface module offers a differential or single ended interface for a digital pulse encoder connection. The module is capable of operating from either a 15 or 24 VDC signal with a maximum frequency of 200Hz.	OTAC-01-KIT	677\$
115/230V Digital Input Interface	The 115/230V Digital Input Interface module offers six (6) 115/230V rated relays mounted on a common board used to drive DI1 through DI6 of the ACS550. The 115/230V must be provided by the user.	ODHI-01-KIT	489\$
Fieldbus Options			
DeviceNet	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	680\$
Profibus-DP	PROFIBUS is an open serial communication standard that enables data exchange between all kinds of automation components. The physical transmission medium of the bus is a twisted pair cable (according to the RS-485 standard). The maximum length of the bus cable is 100 to 1200 meters, depending on the selected transmission rate. Up to 31 stations can be connected to the same PROFIBUS system without the use of repeaters.	RPBA-01-KIT	862\$
Ethernet Adapter	The RETA-01 Adapter 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. The implementation of the Modbus/TCP server in the RETA-01 module is done according to the Modbus/TCP Specification 1.0. The Modbus/TCP protocol allows the RETA-01 module to be used as an Ethernet bridge to control the drive. The RETA-01 module supports eight simultaneous IP connections. Ethernet/IP is based on the Common Industrial Protocol (CIP), which is also the framework for both the ControlNet and DeviceNet networks. Ethernet/IP uses standard Ethernet and TCP/IP technology to transport CIP communication packets. The module fulfills all requirements for certification as an Ethernet/IP device.	RETA-01-KIT	\$790



Standard Drives
ACS550

DS-OPT (BUS-ZP)	Description	Field Kit Part No.	List Price
Fieldbus Options (Cont')			
PROFINET IO 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 an 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	\$790
ControlNet	The ControlNet network uses a RG-6 quad shielded cable or fibre 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	860\$
CanOpen	CANopen is a higher layer protocol based on the CAN (Control Area Network) serial bus system and the CAL (CAN Application Layer). CANopen assumes that the hardware of the connected device has a CAN transceiver and a CAN controller as specified in ISO 11898. The CANopen Communication Profile, CiA DS 301, includes both cyclic and event driven communication, which makes it possible to reduce the bus load to minimum while still maintaining extremely short reaction times.	RCAN-01-KIT	759\$
EtherCAT	The R-series RECA-01 adapter module supports the CANopen® DSP 402 (Device Profile Drives and Motion Control) profile or the ABB drives profile. The RECA-01 implements the EtherCAT® state machine, four sync manager channels to control the access to the application memory, two watchdogs and specified EtherCAT services, addressing modes and FMMUs.	RECA-01-KIT	960\$
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 acquisition through a standard web browser, 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 an additional RS-485 converter is needed for each drive if several drives are connected by their panel port.	SREA-01-KIT	1750\$



DS-OPT (BUS-ZP)	Description	Field Kit Part No.	List Price
Miscellaneous Options			
DriveWindow Light 2.x (DWL 2.x)	DriveWindow Light is software designed for online drive commissioning and maintenance purposes. It is possible to adjust parameters, read the actual values and control the drive with DriveWindow Light instead of the drive control panel. It is also possible to follow trends and draw graphs. Also supports ACS350, ACS800 and DCS400/800 products. DWL 2.x package contains all required hardware to connect to an ACS350, ACS550 or an ACS800. For Win98, NT4, 2000, XP.	3AFE 64691619	800\$
ACS550 DemoCase	Powered by 115VAC, the ACS550 DemoCase includes an ACS 550 drive mounted on a panel. Included is a motor and I/O board with switches, pots, meters and LEDs permitting remote operation of the drive and motor.	ACS550-DEMOCASE	3500\$
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). <ul style="list-style-type: none"> • 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 	3AUA0000041141	\$860
RJ45/DB9 Adapter	This adapter converts the drive's panel port RJ45 (CAT 5 cable connector) plug to a 9 pin RS-232 computer serial port connector for connecting the ACS550 to a PC when using DWL 2.5x.	OPCA-01	99\$
Panel Extension Cable	7 foot CAT 5 patch cable allows remote operation of the standard panel or connection of the drive to a PC using the RJ45/DB9 Adapter which must be purchased separately.	OCAT-01	75\$
Control Panel Mounting Kit	Control Panel Mounting Kit allows remote mounting of the ACS550 keypad on a larger enclosure. The kit includes a 3-meter CAT 5 patch cable, gasket, mounting hardware and drilling template.	ACS-CP-EXT	85\$
Control Panel Mounting Platform	Control Panel Mounting Platform allows remote mounting of the keypad on a large enclosure or remote panel. The kit maintains UL Type 12 integrity of the mounting location. Adaptors, 3 m (10ft) cable and mounting hardware are included in this kit. With this mounting arrangement, the keypad is removable from the panel in a fashion identical to a drive-mounted keypad.	OPMP-01	166\$



Standard Drives

ACS550

DS-OPT (BUS-ZP)	Description	Field Kit Part No.	List Price																					
Drive Options																								
Control Panel (spare/addi- tional)	The Advanced Control Panel supplied with the ACS550 drive as standard. To obtain additional control panels, specify this option.	ACS-CP-A	120\$																					
Flange Mount- ing Kits	<p>Flange Mounting Kit for the ACS550 drives allows mounting the drive with the heatsink external to a 3rd party enclosure. Use of the flange kit requires removal of the drive cover, reducing protection to IP00. The flange kit can be used with 3rd party UL type 1 & 12 (NEMA 1 & 12) enclosures.</p> <table border="1" data-bbox="305 741 914 972"> <thead> <tr> <th>Frame Size</th> <th>Field Kit Code</th> <th>Price</th> </tr> </thead> <tbody> <tr> <td>R1</td> <td>FMK-A-R1</td> <td>268\$</td> </tr> <tr> <td>R2</td> <td>FMK-A-R2</td> <td>346\$</td> </tr> <tr> <td>R3</td> <td>FMK-A-R3</td> <td>459\$</td> </tr> <tr> <td>R4</td> <td>FMK-A-R4</td> <td>580\$</td> </tr> <tr> <td>R5</td> <td>AC8-FLNGMT-R5</td> <td>660\$</td> </tr> <tr> <td>R6</td> <td>AC8-FLNGMT-R6</td> <td>760\$</td> </tr> </tbody> </table>	Frame Size	Field Kit Code	Price	R1	FMK-A-R1	268\$	R2	FMK-A-R2	346\$	R3	FMK-A-R3	459\$	R4	FMK-A-R4	580\$	R5	AC8-FLNGMT-R5	660\$	R6	AC8-FLNGMT-R6	760\$	See Table	See Table
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