

ABB low voltage drives

DCS800

10 to 3000 Hp @ 500 Vdc

200 to 3250 Hp @ 600 Vdc

700 to 4000 Hp @ 700 Vdc

Available up to 1200 Vdc

Product Pricing List



ABB



DC DRIVES DCS800

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Specifications and pricing subject to change without notice

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Symbols used

I_{2Nd}	=	Normal Duty Current
P_{Nd}	=	Normal Duty Power (HP)
I_{2Sd}	=	Standard Duty Current
P_{Sd}	=	Standard Duty Power (HP)
I_{2Hd}	=	Heavy Duty Current
P_{Hd}	=	Heavy Duty Power (HP)



DC DRIVES DCS800

Overview

The DCS800 DC industrial drive is the latest drive from ABB, combining the newest control technology with a thyristor power platform that has been factory-proven all over the world. The DCS800 provides a wider single module power range than any other DC drive on the market today. The hardware and software are designed with you, the user in mind. Special features such as commissioning macros, startup assistant, and user help built into the keypad, make installation and configuration simple while allowing you to customize the application to your needs.

The DCS800 can be used for the simplest to the most complex applications without complicated configuration changes. Standard are eight (8) digital I/O, four (4) analog inputs (all 16bit), two (2) analog outputs, one (1) analog tachometer input, and one (1) digital encoder input. In addition to the standard I/O, there are three integral option slots supporting additional analog I/O, digital I/O, and various field bus communication option modules.

The DCS800 comes equipped with sixteen (16) 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.

The DCS800 also comes standard with DriveWindow Light. DriveWindow Light (DWL) is an easy to use PC based tool for startup and maintenance of the DCS800. Features of this tool for the DCS800 include; user interface to view and edit drive parameters, Startup Assistant, fault logging with help text, and Adaptive Programming graphical interface. DWL supports the DCS800 and these other ABB drives products; ACS350, ACS550, ACS800, & DCS400. The DWL package is provided on a CD and included in the shipment with each DCS800 drive.

Guidelines for use of Price Pages

These Price Pages were developed to allow quick and easy selection of standard DCS800 products. Please contact your local ABB Low Voltage Drives sales representative for information regarding additional configurations.

Application considerations

Because of the variety of application uses for the DCS800 DC 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. Unless otherwise noted, DCS800 DC Drive products found in this document are designed to meet NEMA (National Electrical manufacturing Association) standards.

DCS800 products carry third party approval as follows;

Product	Approval
DCS800	UL / CSA / CE LV Directive / C-Tick

Selecting the correct drive rating

DCS800 DC Drives are current rated devices. The Hp ratings are provided for you reference only and are based on typical NEMA DC motors at nominal voltages. When selecting the drive ensure the drive has a continuous current rating equal or greater than the full load amp rating of the motor (if full motor torque is required).

Technical Support

DCS800 DC Drive Technical Support is available 24 hours per day 7 days a week. To reach Technical Support call 1-800-HELP 365 (1-800-435-7365)."



General Terms and Conditions of Sale

1. General.

The terms and conditions contained herein, together with any additional or different terms contained in ABB's Proposal, if any, submitted to Purchaser (which Proposal shall control over any conflicting terms), constitute the entire agreement (the "Agreement") between the parties with respect to the order and supersede all prior communications and agreements regarding the order. Acceptance by ABB of the order, or Purchaser's acceptance of ABB's Proposal, is expressly limited to and conditioned upon Purchaser's acceptance of these terms and conditions, payment for or acceptance of any performance by ABB being acceptance. These terms and conditions may not be changed or superseded by any different or additional terms and conditions proposed by Purchaser to which terms ABB hereby objects. Unless the context otherwise requires, the term "Equipment" as used herein means all of the equipment, parts, accessories sold, and all software and software documentation, if any, licensed to Purchaser by ABB ("Software") under the order. Unless the context otherwise requires, the term "Services" as used herein means all labor, supervisory, technical and engineering, installation, repair, consulting or other services provided by ABB under the order. As used herein, the term "Purchaser" shall include the initial end user of the Equipment and/or services; provided, however, that Paragraph 13(a) shall apply exclusively to the initial end user.

2. Prices.

- (a) Unless otherwise specified in writing, all Proposals expire thirty (30) days from the date thereof.
- (b) Unless otherwise stated herein, Services prices are based on normal business hours (8 a.m. to 5 p.m. Monday through Friday). Overtime and Saturday hours will be billed at one and one-half (1 1/2) times the hourly rate; and Sunday hours will be billed at two (2) times the hourly rate; holiday hours will be billed at three (3) times the hourly rate. If a Services rate sheet is attached hereto, the applicable Services rates shall be those set forth in the rate sheet. Rates are subject to change without notice.
- (c) The price does not include any federal, state or local property, license, privilege, sales, use, excise, gross receipts, or other like taxes which may now or hereafter be applicable. Purchaser agrees to pay or reimburse any such taxes which ABB or its suppliers are required to pay or collect. If Purchaser is exempt from the payment of any tax or holds a direct payment permit, Purchaser shall, upon order placement, provide ABB a copy, acceptable to the relevant governmental authorities of any such certificate or permit.
- (d) The price includes customs duties and other importation or exportation fees, if any, at the rates in effect on the date of ABB's Proposal. Any change after that date in such duties, fees, or rates, shall increase the price by ABB's additional cost.

3. Payment.

- (a) Unless specified to the contrary in writing by ABB, payment terms are net cash, payable without offset, in United States Dollars, 30 days from date of invoice by wire transfer to the account designated by ABB in the Proposal.
- (b) If in the judgment of ABB the financial condition of Purchaser at any time prior to delivery does not justify the terms of payment specified, ABB may require payment in advance, payment security satisfactory to ABB, or may terminate the order, whereupon ABB shall be entitled to receive reasonable cancellation charges. If delivery is delayed by Purchaser, payment shall be due on the date ABB is prepared to make delivery. Delays in delivery or nonconformities in any installments delivered shall not relieve Purchaser of its obligation to accept and pay for remaining installments.
- (c) Purchaser shall pay, in addition to the overdue payment, a late charge equal to the lesser of 1 1/2% per month or any part thereof or the highest applicable rate allowed by law on all such overdue amounts plus ABB's attorneys' fees and court costs incurred in connection with collection.

4. Changes.

- (a) Any changes requested by Purchaser affecting the ordered scope of work must be accepted by ABB and resulting adjustments to affected provisions, including price, schedule, and guarantees mutually agreed in writing prior to implementation of the change.
- (b) ABB may, at its expense, make such changes in the Equipment or Services as it deems necessary, in its sole discretion, to conform the Equipment or Services to the applicable specifications. If Purchaser objects to any such changes, ABB shall be relieved of its obligation to conform to the applicable specifications to the extent that conformance may be affected by such objection.

5. Delivery.

- (a) All Equipment manufactured, assembled or warehoused in the continental United States is delivered F.O.B. point of shipment. Equipment shipped from outside the continental United States is delivered F.O.B. United States port of entry. Purchaser shall be responsible for any and all demurrage or detention charges.
- (b) If the scheduled delivery of Equipment is delayed by Purchaser or by Force Majeure, ABB may move the Equipment to storage for the account of and at the risk of Purchaser whereupon it shall be deemed to be delivered.
- (c) Shipping and delivery dates are contingent upon Purchaser's timely approvals and delivery by Purchaser of any documentation required for ABB's performance hereunder.
- (d) Claims for shortages or other errors in delivery must be made in writing to ABB within ten days of delivery. Equipment may not be returned except with the prior written consent of and subject to terms specified by ABB. Claims for damage after delivery shall be made directly by Purchaser with the common carrier.

6. Title & Risk of Loss.

Except with respect to Software (for which title shall not pass, use being licensed) title to Equipment shall remain in ABB until fully paid for. Notwithstanding any agreement with respect to delivery terms or payment of transportation charges, risk of loss or damage shall pass to Purchaser upon delivery.

7. Inspection, Testing and Acceptance.

- (a) Any inspection by Purchaser of Equipment on ABB's premises shall be scheduled in advance to be performed during normal working hours.
- (b) If the order provides for factory acceptance testing, ABB shall notify Purchaser when ABB will conduct such testing prior to shipment. Unless Purchaser states specific objections in writing within ten (10) days after completion of factory acceptance testing, completion of the acceptance test constitutes Purchaser's factory acceptance of the Equipment and its authorization for shipment.
- (c) If the order provides for site acceptance testing, testing will be performed by ABB personnel to verify that the Equipment has arrived at site complete, without physical damage, and in good operating condition. Completion of site acceptance testing constitutes full and final acceptance of the Equipment. If, through no fault of ABB, acceptance testing is not completed within thirty (30) days after arrival of the Equipment at the site, the site acceptance test shall be deemed completed and the Equipment shall be deemed accepted.



General Terms and Conditions of Sale

8. Warranties and Remedies.

- (a) Equipment and Services Warranty. ABB warrants that Equipment (excluding Software, which is warranted as specified in paragraph (d) below) shall be delivered free of defects in material and workmanship and that Services shall be free of defects in workmanship. The Warranty Remedy Period for Equipment (excluding Software, Spare Parts and Refurbished or Repaired Parts) shall end twelve (12) months after installation or eighteen (18) months after date of shipment, whichever first occurs. The Warranty Remedy Period for new spare parts shall end twelve (12) months after date of shipment. The Warranty Remedy Period for refurbished or repaired parts shall end ninety (90) days after date of shipment. The Warranty Remedy Period for Services shall end ninety (90) days after the date of completion of Services.
- (b) Equipment and Services Remedy. If a nonconformity to the foregoing warranty is discovered in the Equipment or Services during the applicable Warranty Remedy Period, as specified above, under normal and proper use and provided the Equipment has been properly stored, installed, operated and maintained and written notice of such nonconformity is provided to ABB promptly after such discovery and within the applicable Warranty Remedy Period, ABB shall, at its option, either (i) repair or replace the nonconforming portion of the Equipment or re-perform the nonconforming Services or (ii) refund the portion of the price applicable to the nonconforming portion of Equipment or Services. If any portion of the Equipment or Services so repaired, replaced or re-performed fails to conform to the foregoing warranty, and written notice of such nonconformity is provided to ABB promptly after discovery and within the original Warranty Remedy Period applicable to such Equipment or Services or 30 days from completion of such repair, replacement or re-performance, whichever is later, ABB will repair or replace such nonconforming Equipment or re-perform the nonconforming Services. The original Warranty Remedy Period shall not otherwise be extended.
- (c) Exceptions. ABB shall not be responsible for providing working access to the nonconforming Equipment, including disassembly and re-assembly of non-ABB supplied equipment, or for providing transportation to or from any repair facility, all of which shall be at Purchaser's risk and expense. ABB shall have no obligation hereunder with respect to any Equipment which (i) has been improperly repaired or altered; (ii) has been subjected to misuse, negligence or accident; (iii) has been used in a manner contrary to ABB's instructions; (iv) is comprised of materials provided by or a design specified by Purchaser; or (v) has failed as a result of ordinary wear and tear. Equipment supplied by ABB but manufactured by others is warranted only to the extent of the manufacturer's warranty, and only the remedies, if any, provided by the manufacturer will be allowed.
- (d) Software Warranty and Remedies. ABB warrants that, except as specified below, the Software will, when properly installed, execute in accordance with ABB's published specification. If a nonconformity to the foregoing warranty is discovered during the period ending one (1) year after the date of shipment and written notice of such nonconformity is provided to ABB promptly after such discovery and within that period, including a description of the nonconformity and complete information about the manner of its discovery, ABB shall correct the nonconformity by, at its option, either (i) modifying or making available to the Purchaser instructions for modifying the Software; or (ii) making available at ABB's facility necessary corrected or replacement programs. ABB shall have no obligation with respect to any nonconformities resulting from (i) unauthorized modification of the Software or (ii) Purchaser-supplied software or interfacing. ABB 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 in the nature of what is commonly categorized by the computer industry as "bugs".
- (e) THE FOREGOING WARRANTIES ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES OF QUALITY AND PERFORMANCE, WHETHER WRITTEN, ORAL OR IMPLIED, AND ALL OTHER WARRANTIES INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR USAGE OF TRADE ARE HEREBY DISCLAIMED. THE REMEDIES STATED HEREIN CONSTITUTE PURCHASER'S EXCLUSIVE REMEDIES AND ABB'S ENTIRE LIABILITY FOR ANY BREACH OF WARRANTY.

9. Patent Indemnity.

- (a) ABB shall defend at its own expense any action brought against Purchaser alleging that the Equipment or the use of the Equipment to practice any process for which such Equipment is specified by ABB (a "Process") directly infringes any claim of a patent of the United States of America and to pay all damages and costs finally awarded in any such action, provided that Purchaser has given ABB prompt written notice of such action, all necessary assistance in the defense thereof and the right to control all aspects of the defense thereof including the right to settle or otherwise terminate such action in behalf of Purchaser.
- (b) ABB shall have no obligation hereunder and this provision shall not apply to: (i) any other equipment or processes, including Equipment or Processes which have been modified or combined with other equipment or process not supplied by ABB; (ii) any Equipment or Process supplied according to a design, other than an ABB design, required by Purchaser; (iii) any products manufactured by the Equipment or Process; (iv) any patent issued after the date hereof; or (v) any action settled or otherwise terminated without the prior written consent of ABB.
- (c) If, in any such action, the Equipment is held to constitute an infringement, or the practice of any Process using the Equipment is finally enjoined, ABB shall, at its option and its own expense, procure for Purchaser the right to continue using said Equipment; or modify or replace it with non-infringing equipment or, with Purchaser's assistance, modify the Process so that it becomes non-infringing; or remove it and refund the portion of the price allocable to the infringing Equipment. THE FOREGOING PARAGRAPHS STATE THE ENTIRE LIABILITY OF ABB AND EQUIPMENT MANUFACTURER FOR ANY PATENT INFRINGEMENT.
- (d) To the extent that said Equipment or any part thereof is modified by Purchaser, or combined by Purchaser with equipment or processes not furnished hereunder (except to the extent that ABB is a contributory infringer) or said Equipment or any part thereof is used by Purchaser to perform a process not furnished hereunder by ABB or to produce an article, and by reason of said modification, combination, performance or production, an action is brought against ABB, Purchaser shall defend and indemnify ABB in the same manner and to the same extent that ABB would be obligated to indemnify Purchaser under this "Patent Indemnity" provision.

10. Limitation of Liability.

- (a) In no event shall ABB, its suppliers or subcontractors be liable for special, indirect, incidental or consequential damages, whether in contract, warranty, tort, negligence, strict liability or otherwise, including, but not limited to, loss of profits or revenue, loss of use of the Equipment or any associated equipment, cost of capital, cost of substitute equipment, facilities or services, downtime costs, delays, and claims of customers of the Purchaser or other third parties for any damages. ABB's liability for any claim whether in contract, warranty, tort, negligence, strict liability, or otherwise for any loss or damage arising out of, connected with, or resulting from this Agreement or the performance or breach thereof, or from the design, manufacture, sale, delivery, resale, repair, replacement, installation, technical direction of installation, inspection, operation or use of any equipment covered by or furnished under this Agreement, or from any services rendered in connection therewith, shall in no case (except as provided in the section entitled "Patent Indemnity") exceed one-half (1/2) of the purchase price allocable to the equipment or part thereof or Services which gives rise to the claim.
- (b) All causes of action against ABB arising out of or relating to this Agreement or the performance or breach hereof shall expire unless brought within one year of the time of accrual thereof.
- (c) In no event, regardless of cause, shall ABB be liable for penalties or penalty clauses of any description or for indemnification of Purchaser or others for costs, damages, or expenses arising out of or related to the Equipment and/Services.



General Terms and Conditions of Sale

11. Laws and Regulations. ABB does not assume any responsibility for compliance with federal, state or local laws and regulations, except as expressly set forth herein, and compliance with any laws and regulations relating to the operation or use of the Equipment or Software is the sole responsibility of the Purchaser. All laws and regulations referenced herein shall be those in effect as of the Proposal date. In the event of any subsequent revisions or changes thereto, ABB assumes no responsibility for compliance therewith. If Purchaser desires a modification as a result of any such change or revision, it shall be treated as a change per Article 4. Nothing contained herein shall be construed as imposing responsibility or liability upon ABB for obtaining any permits, licenses or approvals from any agency required in connection with the supply, erection or operation of the Equipment. This Agreement shall be governed by the laws of the State of New York, but excluding the provisions of the United Nations Convention on Contracts for the International Sale of Goods and excluding New York law with respect to conflicts of law. Purchaser agrees that all causes of action against ABB under this Agreement shall be brought in the State Courts of the State of New York, or the U.S. District Court for the Southern District of New York. If any provision hereof, partly or completely, shall be held invalid or unenforceable, such invalidity or unenforceability shall not affect any other provision or portion hereof and these terms shall be construed as if such invalid or unenforceable provision or portion thereof had never existed.

12. OSHA. ABB warrants that the Equipment will comply with the relevant standards of the Occupational Safety and Health Act of 1970 ("OSHA") and the regulations promulgated thereunder as of the date of the Proposal. Upon prompt written notice from the Purchaser of a breach of this warranty, ABB will replace the affected part or modify it so that it conforms to such standard or regulation. ABB's obligation shall be limited to such replacement or modification. In no event shall ABB be responsible for liability arising out of the violation of any OSHA standards relating to or caused by Purchaser's design, location, operation, or maintenance of the Equipment, its use in association with other equipment of Purchaser, or the alteration of the Equipment by any party other than ABB.

13. Software License.(a) ABB owns all rights in or has the right to sublicense all of the Software, if any, to be delivered to Purchaser under this Agreement. As part of the sale made hereunder Purchaser hereby obtains a limited license to use the Software, subject to the following: (i) The Software may be used only in conjunction with equipment specified by ABB; (ii) The Software shall be kept strictly confidential; (iii) The Software shall not be copied, reverse engineered, or modified; (iv) The Purchaser's right to use the Software shall terminate immediately when the specified equipment is no longer used by the Purchaser or when otherwise terminated, e.g. for breach, hereunder; and (v) the rights to use the Software are non-exclusive and non-transferable, except with ABB's prior written consent. (b) Nothing in this Agreement shall be deemed to convey to Purchaser any title to or ownership in the Software or the intellectual property contained therein in whole or in part, nor to designate the Software a "work made for hire" under the Copyright Act, nor to confer upon any person who is not a named party to this Agreement any right or remedy under or by reason of this Agreement. In the event of termination of this License, Purchaser shall immediately cease using the Software and, without retaining any copies, notes or excerpts thereof, return to ABB the Software and all copies thereof and shall remove all machine readable Software from all of Purchaser's storage media.

14. Inventions and Information. Unless otherwise agreed in writing by ABB and Purchaser, all right, title and interest in any inventions, developments, improvements or modifications of or for Equipment and Services shall remain with ABB. Any design, manufacturing drawings or other information submitted to the Purchaser remains the exclusive property of ABB. Purchaser shall not, without ABB's prior written consent, copy or disclose such information to a third party. Such information shall be used solely for the operation or maintenance of the Equipment and not for any other purpose, including the duplication thereof in whole or in part.

15. Force Majeure. ABB shall neither be liable for loss, damage, detention or delay nor be deemed to be in default for failure to perform when prevented from doing so by causes beyond its reasonable control including but not limited to acts of war (declared or undeclared), Acts of God, fire, strike, labor difficulties, acts or omissions of any governmental authority or of Purchaser, compliance with government regulations, insurrection or riot, embargo, delays or shortages in transportation or inability to obtain necessary labor, materials, or manufacturing facilities from usual sources or from defects or delays in the performance of its suppliers or subcontractors due to any of the foregoing enumerated causes. In the event of delay due to any such cause, the date of delivery will be extended by period equal to the delay plus a reasonable time to resume production, and the price will be adjusted to compensate ABB for such delay.

16. Cancellation. Any order may be cancelled by Purchaser only upon prior written notice and payment of termination charges, including but not limited to, all costs identified to the order incurred prior to the effective date of notice of termination and all expenses incurred by ABB attributable to the termination, plus a fixed sum of ten (10) percent of the final total price to compensate for disruption in scheduling, planned production and other indirect costs.

17. Termination. No termination by Purchaser for default shall be effective unless, within fifteen (15) days after receipt by ABB of Purchaser's written notice specifying such default, ABB shall have failed to initiate and pursue with due diligence correction of such specified default.

18. Export Control.

(a) 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 ABB or the "direct product" thereof as defined in the Export Control Regulations of the United States Department of Commerce, except in compliance with such Regulations.

(b) If applicable, ABB shall file for a U.S. 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 ABB. 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 ABB without liability for damages of any kind resulting from such cancellation. At ABB's request, Purchaser shall provide to ABB a Letter of Assurance and End-User Statement in a form reasonably satisfactory to ABB.

19. Assignment. Any assignment of this Agreement or of any rights or obligations under the Agreement without prior written consent of ABB shall be void.

20. Nuclear Insurance – Indemnity. For applications in nuclear projects, the Purchaser and/or its end user customer shall have complete insurance protection against liability and property damage resulting from a nuclear incident to and shall indemnify ABB, its subcontractors, suppliers and vendors against all claims resulting from a nuclear incident.

21. Resale. If Purchaser resells any of the Equipment, the sale terms shall limit ABB's liability to the buyer to the same extent that ABB's liability to Purchaser is limited hereunder.

22. Entire Agreement. This Agreement constitutes the entire agreement between ABB and Purchaser. There are no agreements, understandings, restrictions, warranties, or representations between ABB and Purchaser other than those set forth herein or herein provided.



Product Features

Standard Features

- UL 508 C Cert E196914 and CSA C 22.2 No. 14-95
- Full Graphic and Multilingual Display
- Start-Up Assistant
- Application macros
- DriveWindow Light
 - Parameter setup and backup
 - Start-Up Assistant
 - Adaptive Programming support
- Motor ID Run (Armature, Field, Speed Reg)
- Motor Control
 - Direct Current Control
 - EMF, Analog Tachometer, Digital Encoder
- Input semi-conductor fuses in frames D5-D7
- Adaptive Programming with sixteen (16) logic controller type function blocks
- Coated Circuit Boards
- Standard I/O
 - Eight (8) Programmable Digital Inputs
 - Seven (7) Programmable Digital Outputs
 - One (1) Programmable Relay Contact
 - Four (4) Programmable Analog Inputs (16bit)
 - Two (2) Programmable Analog Outputs (16bit)
 - One (1) Analog Output @ 4Vdc for Actual Arm Amps
 - One (1) Analog Tachometer Input
 - One (1) Digital Encoder Input
- Adjustable Current Limit
- Adjustable Torque Limit
- Two (2) Independently Adjustable Accel and Decel Ramps
- Linear or Adjustable "S" Curve Accel/Decel Ramp
- Ramp to Stop or Coast to a Stop
- Integral Programmable PID Setpoint Controller
- Four (4) Preset Speeds
- Motor Pot for speed reference
- Internal Field Supply - in frames D1-D5
 - Half controlled, 3 phase supply

Available options

- External Field Supply (Half or Full controlled)
- I/O Options
 - DDCS Communications Card SDCS-COM-8x
 - Remote mounted isolated Digital I/O
 - Remote mounted isolated Analog I/O
 - Analog I/O Extension Card RAIO-01
 - Digital I/O Extension Card RDIO-01
- Field bus Adapter Modules
 - DeviceNet™
 - ProfiBus-DP™
 - ModBus™
 - ControlNet™
 - Ethernet
- Remote panel mounting OPMP-01
- CE EMC Filters
- DriveWindow® a Start-up and Programming Tool

Programmable Fault Functions

- Armature OverVoltage
- Armature Over Current
- Armature Current Rise Maximum
- Field Minimum
- Field Over Current
- Motor Stall
- Motor Thermal Protection
- External Fault & Alarm
- Speed Feedback monitor
- Motor Over Speed
- Current Ripple
- Input Voltage monitor
- Local Control Loss (Panel Loss)
- Communication Control Loss

Product Specifications

Power Connection

Control Input Voltage	115Vac or 230Vac (-15%, +10%) - Auto Sensing
Input Frequency	45 to 65 Hz
Power Consumption	120VA
Power fail level	85Vac @ 115Vac, 170Vac @ 230Vac
Connection	Terminals X99:1,2

Power Input Voltage (U1)

	xxxx-05 = 230Vac to 500Vac 3-phase (+/- 10%)
	xxxx-06 = 270Vac to 600Vac 3-phase (+/- 10%)
	xxxx-07 = 315Vac to 690Vac 3-phase (+/- 10%)
	xxxx-08 = 360Vac to 800Vac 3-phase (+/- 10%)
	xxxx-10 = 450Vac to 990Vac 3-phase (+/- 10%)
	xxxx-12 = 540Vac to 1190Vac 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	0.98 (at nominal load)
Connection	Terminals U1, V1, W1

Motor Armature

Output Voltage	0 to V_{dc} (See Hardware Manual)
Output Current	See Rating Tables and/or Hardware Manual
Continuous Current	1.0 * I_{2Nd} (Normal Duty use) @ 40°C
	1.0* I_{2Sd} (Standard Duty use) @ 40°C
	1.0* I_{2Hd} (Heavy Duty use) @ 40°C
Short Term Overload Capacity	1.10 * I_{2Nd} (Normal Duty use) for 60 sec and 10 min at 100%
	1.50* I_{2Sd} (Standard Duty use) for 30 sec and 15 min at 100%
	1.50* I_{2Hd} (Heavy Duty use) for 60 sec and 15 min at 100%
Acceleration & Deceleration Time	0.01 to 30,000 Sec
Short circuit withstand rating	65,000 AIC (UL) with input semi-conductor fuses
Connection	Terminals C1 & D1

Motor Field

On Board Field Exciter (frames D1-D4)

Input Voltage	110Vac (-15%) to 500Vac (+10%), internally fused
Input Frequency	48 to 63Hz
Output Current	D1 - 0.3 to 6A, D2 - 0.3 to 15A, D3 - 0.3 to 20A, D4 - 0.3 to 25A

On Board Field Exciter (frame D5) FEX-425

Input Voltage	110Vac (-15%) to 500Vac (+10%), internally fused
Input Frequency	48 to 63Hz
Output Current	0.3 to 25A

External Field Exciter - DCF803-0035

Auxiliary Input Voltage	24Vdc supplied from SDCS-DSL-4 terminal X51
Input Voltage	110Vac (-15%) to 500Vac (+10%), single or three phase, semi-conductor fuses required

Input Frequency 48 to 63Hz

Output Current 0.3 to 35A

External Field Exciter - DCF803-0050

Auxiliary Input Voltage	110Vac (-15%) to 230Vac (+10%), single phase (15w, 30VA)
Input Voltage	110Vac (-15%) to 500Vac (+10%), single phase, semi-conductor fuses required
Input Frequency	48 to 63Hz
Output Current	0.3 to 50A

External Field Exciter - DCF804-0050

Auxiliary Input Voltage	110Vac (-15%) to 230Vac (+10%), single phase (15w, 30VA)
Input Voltage	110Vac (-15%) to 500Vac (+10%), single phase, semi-conductor fuses required
Input Frequency	48 to 63Hz
Output Current	0.3 to 50A



DC DRIVES DCS800

Product Specifications

Mechanical Enclosure

Module must be mounted in a protective enclosure with proper ventilation for adequate cooling
Protection Class (-S0x modules) IP00 / UL Type Open
Paint Finish (-S0x modules) RAL 9002 / NCS 170 4 Y015R

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 55°C (131°F) maximum)
Relative Humidity @ 5 to 40°C 5 to 95%, no condensation allowed, maximum relative humidity is 60% in the presence of corrosive gasses
Change of ambient temp less than 0.5°C / minute
Contamination Levels
IEC 60721-3-1, 60721-3-2 and 60721-3-3
Chemical Gasses 3C2
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 Frame D1-D4, 1.5mm @ 2 to 9Hz, 0.5g @ 5 to 55hz
Frame D5-D7, 1mm @ 2 to 9Hz, 0.3g @ 9 to 200hz

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

Air Temperature -20° to 55°C (-4° to 131°F)
Relative Humidity Less than 95%, no condensation allowed
Atmospheric Pressure 70 to 106 kPa (10.2 to 15.4 PSI)
Vibration Max Frame D1-D4, 1.5mm @ 2 to 9Hz, 0.5g @ 5 to 55hz
Frame D5-D7, 1mm @ 2 to 9Hz, 0.3g @ 9 to 200hz
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

Control Terminal Blocks

Size 0.3 to 3 mm² (12 to 22 AWG) - All control terminal blocks

Product Specifications

Reference Power Supply

Voltage	X4:4 = +10Vdc, X4:5 = -10Vdc
Maximum Load	5mA
Applicable Potentiometer	2 k-ohm to 10 k-ohm

Analog Inputs

Four (4) Programmable Differential Inputs + Analog Tachometer

AI1 & AI2 Voltage Config	-10Vdc to +10Vdc, Input Resistance RI = 200 k-ohms (default is voltage, select via S2 & S3 jumpers)
AI1 & AI2 Current Config	0 to 20 mA, Input Resistance RI = 250 ohms (default is voltage, select via S2 & S3 jumpers)
AI3 & AI4 Voltage Only	-10Vdc to +10Vdc, Input Resistance RI = 200 k-ohms
Analog Tachometer	+/-8 to 30Vdc, +/-30 to 90Vdc, +/-90 to 270Vdc
Common mode range	+/-15v
Resolution	15bit plus sign
Input Updating Time	AI1 & AI2 = 2.8ms, AI3 & AI4 = 5ms

Analog Outputs

Two (2) Programmable Voltage Outputs + one (1) dedicated Armature Current Output

Signal Level (AO1&AO2)	-10Vdc to +10Vdc, maximum load of 5ma
Signal Level (I-Actual)	4Vdc = 325% of rated motor current entered in Parm 99.03
Resolution	11bit plus sign
Output Updating Time	5ms

Digital Inputs

Eight (8) Programmable Digital Inputs (Common Ground)

Signal Level	24Vdc, (-15%) to max of 48Vdc
Logical switch thresholds	< 7.3Vdc status "0", >7.5Vdc status "1"
Input Current	5mA
Filtering Time Constant	2ms
Input Updating Time	DI1 to DI6 = 5ms, DI7 & DI8 = 2.8ms

Internal 24 Vdc Supply for Digital Inputs

Voltage	24Vdc
Maximum Current	125 mA
Protection	Short Circuit Proof

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

Digital Outputs

Seven (7) Programmable Digital Outputs

Type	Transistor for Relay Driving only
Signal Level	Status 1 = 22Vdc at no load
Maximum Output	50mA, Current limit for all seven (7) outputs total is 160mA
Output Updating Time	2.8 ms

Relay Output

Digital Output 8 for power contactor control (normally open contact)

Switching Capacity	3A at 24Vdc or 115/230Vac, 0.3 A at 120Vdc
Isolation Test Voltage	4 kVac, 1 minute
Output Updating Time	2.8 ms

Digital Encoder

Encoder Voltage Supply	5Vdc @ 250mA max / 24Vdc @ 200mA max (default is 5v select via S4 jumper)
Encoder Mode	Single Ended or Differential (select via S4 jumper)
Signal Sensitivity	5Vdc or 12/24Vdc
Maximum Input Frequency	300kHz



DC DRIVES DCS800

Product Compliance and Certifications

North American Standards

In North America the system components fulfil the requirements of the table below.

Rated supply voltage	Standards	
	Converter module	Enclosed converter
to 600 V	UL 508 C Power Conversion Equipment CSA C 22.2 No. 14-95 Industrial Control Equipment, Industrial Products Available for converter modules including field exciter units. Types with UL mark: • see UL Listing www.ul.com / certificate no. E196914 • or on request	UL/CSA types: on request
>600 V to 1000 V	EN / IEC: see table below. Available for converter modules including field exciter units.	EN / IEC types: on request (for details see table below)

Regulatory compliance

The converter module and enclosed converter components are designed for use in industrial environments. In EEA countries, the components fulfil the requirements of the EU directives, see table below.

European union directive	Manufacturer's assurance	Harmonized standards	
		Converter module	Enclosed converter
Machinery Directive 98/37/EEC 93/68/EEC	Declaration of Incorporation	EN 60204-1 [IEC 60204-1]	EN 60204-1 [IEC 60204-1]
Low Voltage Directive 73/23/EEC 93/68/EEC	Declaration of Conformity	EN 60146-1-1 [IEC 60146-1-1] { (EN 50178 [IEC --]) } { see additional } { IEC 60664 }	EN 60204-1 [IEC 60204-1] { EN 60439-1 } { [IEC 60439-1] }
EMC Directive 89/336/EEC 93/68/EEC	Declaration of Conformity (Provided that all installation instructions concerning cable selection, cabling and EMC filters or dedicated transformer are followed.)	EN 61800-3 ① [IEC 61800-3] ① in accordance with 3ADW 000 032	EN 61800-3 ① [IEC 61800-3] ① in accordance with 3ADW 000 032/3ADW 000 091

Hardware Description

The DCS800 DC industrial drive is the latest drive from ABB, combining the newest control technology with a thyristor power platform that has been factory-proven all over the world. The DCS800 provides a wider single module power range than any other DC drive on the market today. The hardware and software are designed with you, the user in mind. Special features such as commissioning macros, startup assistant, and user help built into the keypad, make installation and configuration simple while allowing you to customize the application to your needs.

DCS800-S0x-xxxx-xx

The DCS800-S0x module drive is available from 5 to 250Hp @ 240Vdc, 10 to 3000Hp @ 500Vdc, 200 to 3250Hp @ 600Vdc, 700 to 4000Hp @ 700Vdc, and is also available in voltages up to 1200Vdc. There are seven (7) different module frame sizes from D1 through D7. Each are available in a NEMA Type Open (IP00) enclosure, include a control panel for user interface, and DriveWindow Light standard. Frames D1 through D5 at <525Vdc also include an integrate internal three phase field supply. Frames D6 & D7 and all frames at 600Vdc and greater require an external field supply that must be ordered separately. All DCS800-S0x module drives must be mounted in an approved industrial enclosure with proper cooling, environmental protection, and installed to meet all local and national codes. Additionally, all frame D1-D4 drives require AC input supply semi-conductor fusing and all drives require an input reactor or dedicated isolation transformer and input or output power contactor (input preferred).



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.

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 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

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.



DC DRIVES DCS800

Basic Type Code Information

DCS800 - S01 - 0025 - 05 [] + XXXX

DCS800 Product Family

Type

S0 = 3-phase converter module
A0 = Enclosed converter
E0 = Panel mounted converter
R0 = Rebuild kit

Bridge type

1 = non-regenerative(2-Q)
2 = regenerative (4-Q)

Rated Current

Current rating of drive unit (Amps)

Rated Input Voltage

05 = 230...525 Vac
06 = 270...600 Vac
07 = 315...690 Vac
08 = 360...800 Vac
10 = 450...990 Vac
12 = 540...1190 Vac

Power Terminal Connection

Blank = No option (D1 - D6)
L = Left side power terminals
R = Right side power terminals

Additional Factory Installed Options

Factory installed options will be built to order. Product lead times are 6 to 9 weeks with factory options installed. We recommend ordering options as field kits. Stock items usually ship from New Berlin, WI same day.

Ordering Information

To order a DCS800 drive, select the appropriate product type code from the following pages for your input voltage, motor voltage, motor current, and application overload requirement. This then represents the basic drive product. To add factory installed options, simply add a [+] to the end of the type code followed by the plus code of the desired option. Most factory installed options will extend lead times. We recommend ordering as field kits for ship from stock delivery of Frames D1-D5.

Required Additional Hardware:

DC Drives require additional hardware to complete the installation:

Required

- Input AC line fuses for frames D1-D4 (Standard in D5-D7) must be of semi-conductor type, i.e. Bussmann FWP
- Input reactor 1-4% or dedicated isolation transformer
- Input or output contactor (input recommended)
- External field supply for frames D6-D7 (seperate line item)

Optional

- Motor blower overload
- EMC Filter

Additional requirements per local and national codes.

Notes for product selection

General Notes

- Plus code +S171 selects the option of a 115Vac rated cooling fan for the designated drive. If a 230Vac fan is desired, remove the +S171 when ordering
- Plus code +S163 adds the optional internal field supply for the 500Vdc frame D5 drives. If an external field supply is desired, remove the +S163 when ordering
- I_{2Nd} : continuous current at 40°C (104°F). Overload cycle 110% I_{2Nd} for 60 seconds, 100% for 10 minutes.
- I_{2Sd} : continuous current at 40°C (104°F). Overload cycle 150% I_{2Sd} for 30 seconds, 100% for 15 minutes.
- I_{2Hd} : continuous current at 40°C (104°F). Overload cycle 150% I_{2Hd} for 60 seconds, 100% for 15 minutes.
- The rated current of the DCS800 must be greater than or equal to the rated motor current to achieve the rated motor power given the table
- Horsepower ratings are based on NEMA motor ratings for typical dc motors. Check motor nameplate current for compatibility
- NA; indicates the information is Not Available



DC DRIVES DCS800

Standard Product

240Vdc Non-Regenerative

Unit Type 2Q Converters	Normal Duty US 110%, 60 sec		Standard Duty US 150%, 30 sec		Heavy Duty US 150%, 60 sec		Frame Size	Price
	I_{2Nd} Amps	P_{Nd} HP	I_{2Sd} Amps	P_{Sd} HP	I_{2Hd} Amps	P_{Hd} HP		
DCS800-S01-0020-05	20	5	20	5	20	5	D1	\$2,882
DCS800-S01-0045-05	42	10	40	10	40	10		\$3,223
DCS800-S01-0065-05	61	15	60	15	60	15		\$3,450
DCS800-S01-0090-05	85	20	78	20	78	20		\$3,554
DCS800-S01-0125-05	115	30	111	30	108	30		\$3,720
DCS800-S01-0180-05	175	50	160	40	155	40	D2	\$4,540
DCS800-S01-0230-05	219	60	203	50	195	50		\$4,965
DCS800-S01-0315-05	300	75	290	75	280	75	D3	\$5,859
DCS800-S01-0405-05	385	100	341	100	319	75		\$7,038
DCS800-S01-0470-05	447	125	403	100	390	100		\$8,176
DCS800-S01-0610-05+S171	580	150	508	150	484	125	D4	\$9,790
DCS800-S01-0740-05+S171	704	200	695	200	690	200		\$11,894
DCS800-S01-0900-05+S171	865	250	817	200	784	200		\$14,766

240Vdc Regenerative

Unit Type 4Q Converters	Normal Duty US 110%, 60 sec		Standard Duty US 150%, 30 sec		Heavy Duty US 150%, 60 sec		Frame Size	Price
	I_{2Nd} Amps	P_{Nd} HP	I_{2Sd} Amps	P_{Sd} HP	I_{2Hd} Amps	P_{Hd} HP		
DCS800-S02-0025-05	23	5	23	5	23	5	D1	\$3,837
DCS800-S02-0050-05	47	10	42	10	40	10		\$4,184
DCS800-S02-0075-05	71	20	60	15	60	15		\$4,381
DCS800-S02-0100-05	95	25	81	20	79	20		\$4,550
DCS800-S02-0140-05	133	30	121	30	116	30		\$4,883
DCS800-S02-0200-05	190	50	166	40	166	40	D2	\$5,868
DCS800-S02-0260-05	247	60	213	60	208	50		\$6,408
DCS800-S02-0350-05	333	75	287	75	285	75	D3	\$7,720
DCS800-S02-0450-05	385	100	360	100	355	100		\$8,953
DCS800-S02-0520-05	485	125	405	100	402	100		\$9,972
DCS800-S02-0680-05+S171	647	150	630	150	614	150	D4	\$12,002
DCS800-S02-0820-05+S171	780	200	770	200	740	200		\$15,004
DCS800-S02-1000-05+S171	952	250	846	250	810	200		\$19,003



DC DRIVES DCS800

Standard Product

500Vdc Non-Regenerative

Unit Type 2Q Converters	Normal Duty US 110%, 60 sec		Standard Duty US 150%, 30 sec		Heavy Duty US 150%, 60 sec		Frame Size	Price
	I_{2Nd} Amps	P_{Nd} HP	I_{2Sd} Amps	P_{Sd} HP	I_{2Hd} Amps	P_{Hd} HP		
DCS800-S01-0020-05	19	10	18	10	18	10	D1	\$2,882
DCS800-S01-0045-05	42	25	38	20	38	20		\$3,223
DCS800-S01-0065-05	61	30	54	30	54	30		\$3,450
DCS800-S01-0090-05	88	50	78	40	78	40		\$3,554
DCS800-S01-0125-05	124	75	111	60	104	60		\$3,720
DCS800-S01-0180-05	171	100	164	100	148	75	D2	\$4,540
DCS800-S01-0230-05	219	125	205	125	205	125		\$4,965
DCS800-S01-0315-05	300	150	264	150	264	150	D3	\$5,859
DCS800-S01-0405-05	385	200	325	200	325	200		\$7,038
DCS800-S01-0470-05	447	250	405	250	405	250		\$8,176
DCS800-S01-0610-05+S171	580	300	484	300	490	300	D4	\$9,790
DCS800-S01-0740-05+S171	704	400	670	400	664	400		\$11,894
DCS800-S01-0900-05+S171	865	500	795	500	795	500		\$14,766
DCS800-S01-1200-05+S163	1105	700	950	600	851	550	D5	\$17,929
DCS800-S01-1500-05+S163	1450	900	1320	800	1280	800		\$19,730
DCS800-S01-2000-05+S163	1904	1100	1480	900	1479	900		\$22,047
DCS800-S01-2050-05	1985	1250	1585	1000	1585	1000	D6	\$24,458
DCS800-S01-2500-05	2395	1500	1986	1250	1990	1250		\$32,158
DCS800-S01-3000-05	2820	1750	2416	1500	2416	1500		\$38,978
DCS800-S01-3300-05L	3178	2000	2416	1500	2416	1500	D7	\$44,484
DCS800-S01-3300-05R	3178	2000	2416	1500	2416	1500		\$44,484
DCS800-S01-4000-05L	3690	2250	2890	1750	2897	1750		\$60,142
DCS800-S01-4000-05R	3690	2250	2890	1750	2897	1750		\$60,142
DCS800-S01-5200-05L	4820	3000	3972	2500	3800	2250		\$80,741
DCS800-S01-5200-05R	4820	3000	3972	2500	3800	2250		\$80,741

Note:

- (1) Frame D6 drives do not include busbar tabs for the power connection. There are five - 4 hole lug terminals on the side of the drive unit (3 for AC, 2 for DC). If busbar tabs are required, they must be ordered separately. See "Supporting Installation Hardware" section in Common Options for ordering information.
- (2) Frame D6 and D7 do not include field supplies. A field supply is required for all DC motor applications. See "External Field Supplies" section for selection and ordering information.
- (3) In Frame Size D7 - the 'L' is for left-hand bus arrangement, the 'R' is for right-hand bus arrangement.



DC DRIVES DCS800

Standard Product

500Vdc Regenerative

Unit Type 4Q Converters	Normal Duty US 110%, 60 sec		Standard Duty US 150%, 30 sec		Heavy Duty US 150%, 60 sec		Frame Size	Price
	I_{2Nd} Amps	P_{Nd} HP	I_{2Sd} Amps	P_{Sd} HP	I_{2Hd} Amps	P_{Hd} HP		
DCS800-S02-0025-05	23	10	20	10	20	10	D1	\$3,837
DCS800-S02-0050-05	47	25	38	20	38	20		\$4,184
DCS800-S02-0075-05	71	40	54	30	54	30		\$4,381
DCS800-S02-0100-05	95	50	84	50	79	40		\$4,550
DCS800-S02-0140-05	133	75	125	75	110	60		\$4,833
DCS800-S02-0200-05	190	100	166	100	166	100	D2	\$5,868
DCS800-S02-0260-05	247	150	208	125	208	125		\$6,408
DCS800-S02-0350-05	333	200	287	150	264	150	D3	\$7,720
DCS800-S02-0450-05	428	250	360	200	357	200		\$8,953
DCS800-S02-0520-05	489	300	405	250	405	250		\$9,972
DCS800-S02-0680-05+S171	647	400	605	300	544	300	D4	\$12,002
DCS800-S02-0820-05+S171	806	500	740	400	664	400		\$15,004
DCS800-S02-1000-05+S171	965	600	815	500	810	500		\$19,003
DCS800-S02-1200-05+S163	1105	700	950	600	851	500	D5	\$23,841
DCS800-S02-1500-05+S163	1450	900	1320	800	1280	800		\$28,406
DCS800-S02-2000-05+S163	1885	1100	1490	900	1479	900		\$31,547
DCS800-S02-2050-05	1985	1250	1585	1000	1585	1000	D6	\$34,931
DCS800-S02-2500-05	2395	1500	1995	1250	1990	1250		\$44,705
DCS800-S02-3000-05	2820	1750	2382	1500	2382	1500		\$53,608
DCS800-S02-3300-05L	3178	2000	2416	1500	2416	1500	D7	\$60,473
DCS800-S02-3300-05R	3178	2000	2416	1500	2416	1500		\$60,473
DCS800-S02-4000-05L	3690	2250	2890	1750	2890	1750		\$75,752
DCS800-S02-4000-05R	3690	2250	2890	1750	2890	1750		\$75,752
DCS800-S02-5200-05L	4820	3000	3972	2500	3800	2250		\$98,659
DCS800-S02-5200-05R	4820	3000	3972	2500	3800	2250		\$98,659

Note:

- (1) Frame D6 drives do not include busbar tabs for the power connection. There are five - 4 hole lug terminals on the side of the drive unit (3 for AC, 2 for DC). If busbar tabs are required, they must be ordered separately. See "Supporting Installation Hardware" section in Common Options for ordering information.
- (2) Frame D6 and D7 do not include field supplies. A field supply is required for all DC motor applications. See "External Field Supplies" section for selection and ordering information.
- (3) In Frame Size D7 - the 'L' is for left-hand bus arrangement, the 'R' is for right-hand bus arrangement.



DC DRIVES DCS800

Standard Product

600Vdc Non-Regenerative

Unit Type 2Q Converters	Normal Duty US 110%, 60 sec		Standard Duty US 150%, 30 sec		Heavy Duty US 150%, 60 sec		Frame Size	Price
	I_{2Nd} Amps	P_{Nd} HP	I_{2Sd} Amps	P_{Sd} HP	I_{2Hd} Amps	P_{Hd} HP		
DCS800-S01-0290-06	280	200	268	200	268	200	D3	\$7,959
DCS800-S01-0590-06+S171	561	400	480	300	470	300	D4	\$11,455
DCS800-S01-0900-06	828	600	665	500	665	500	D5	\$16,080
DCS800-S01-1500-06	1428	1000	1325	1000	1325	1000		\$21,184
DCS800-S01-2000-06	1850	1250	1490	1100	1479	1100		\$26,836
DCS800-S01-2050-06	1850	1250	1490	1100	1479	1100	D6	\$28,905
DCS800-S01-2500-06	2380	1750	1990	1500	1990	1500		\$35,935
DCS800-S01-3000-06	2790	2000	2380	1750	2380	1750		\$43,686
DCS800-S01-3300-06L	3035	2250	2380	1750	2380	1750	D7	\$49,086
DCS800-S01-3300-06R	3035	2250	2380	1750	2380	1750		\$49,086
DCS800-S01-4000-06L	3720	2500	2970	2250	2970	2250		\$69,015
DCS800-S01-4000-06R	3720	2500	2970	2250	2970	2250		\$69,015
DCS800-S01-4800-06L	4410	3250	3507	2500	3507	2500		\$88,304
DCS800-S01-4800-06R	4410	3250	3507	2500	3507	2500		\$88,304

600Vdc Regenerative

Unit Type 4Q Converters	Normal Duty US 110%, 60 sec		Standard Duty US 150%, 30 sec		Heavy Duty US 150%, 60 sec		Frame Size	Price
	I_{2Nd} Amps	P_{Nd} HP	I_{2Sd} Amps	P_{Sd} HP	I_{2Hd} Amps	P_{Hd} HP		
DCS800-S02-0320-06	295	200	268	200	268	200	D3	\$11,202
DCS800-S02-0650-06+S171	619	400	540	400	540	400	D4	\$15,064
DCS800-S02-0900-06	828	600	665	500	665	500	D5	\$21,499
DCS800-S02-1500-06	1428	1000	1325	1000	1325	1000		\$28,322
DCS800-S02-2050-06	1850	1250	1490	1100	1490	1100	D6	\$39,429
DCS800-S02-2500-06	2380	1750	1980	1500	1980	1500		\$47,020
DCS800-S02-3000-06	2790	2000	2293	1750	2293	1750		\$61,544
DCS800-S02-3300-06L	3035	2250	2370	1750	2370	1750	D7	\$64,706
DCS800-S02-3300-06R	3035	2250	2370	1750	2370	1750		\$64,706
DCS800-S02-4000-06L	3720	2500	2970	2250	2970	2250		\$89,392
DCS800-S02-4000-06R	3720	2500	2970	2250	2970	2250		\$89,392
DCS800-S02-4800-06L	4410	3250	3507	2500	3507	2500		\$112,631
DCS800-S02-4800-06R	4410	3250	3507	2500	3507	2500		\$112,631

Note:

- (1) Frame D6 drives do not include busbar tabs for the power connection. There are five - 4 hole lug terminals on the side of the drive unit (3 for AC, 2 for DC). If busbar tabs are required, they must be ordered separately. See "Supporting Installation Hardware" section in Common Options for ordering information.
- (2) Drives rated 600V and above do not include field supplies. A field supply is required for all DC motor applications. See "External Field Supplies" section for selection and ordering information.
- (3) In Frame Size D7 - the 'L' is for left-hand bus arrangement, the 'R' is for right-hand bus arrangement.



DC DRIVES DCS800

Standard Product

700Vdc Non-Regenerative

Unit Type 2Q Converters	Normal Duty US 110%, 60 sec		Standard Duty US 150%, 30 sec		Heavy Duty US 150%, 60 sec		Frame Size	Price
	I_{2Nd} Amps	P_{Nd} HP	I_{2Sd} Amps	P_{Sd} HP	I_{2Hd} Amps	P_{Hd} HP		
DCS800-S01-0900-07	820	700	620	500	620	500	D5	\$17,403
DCS800-S01-1500-07	1428	1250	1160	1000	1160	1000		\$23,397
DCS800-S01-2000-07	1850	1500	1490	1250	1479	1250		\$28,443
DCS800-S01-2050-07	1850	1500	1490	1250	1479	1250	D6	\$31,492
DCS800-S01-2500-07	2380	2000	1990	1750	1990	1750		\$38,263
DCS800-S01-3000-07	2790	2500	2380	2000	2380	2000		\$46,470
DCS800-S01-3300-07L	3035	2500	2380	2000	2380	2000	D7	\$52,331
DCS800-S01-3300-07R	3035	2500	2380	2000	2380	2000		\$52,331
DCS800-S01-4000-07L	3720	3250	2970	2500	2970	2500		\$71,205
DCS800-S01-4000-07R	3720	3250	2970	2500	2970	2500		\$71,205
DCS800-S01-4800-07L	4480	4000	3507	3000	3507	3000		\$92,997
DCS800-S01-4800-07R	4480	4000	3507	3000	3507	3000		\$92,997

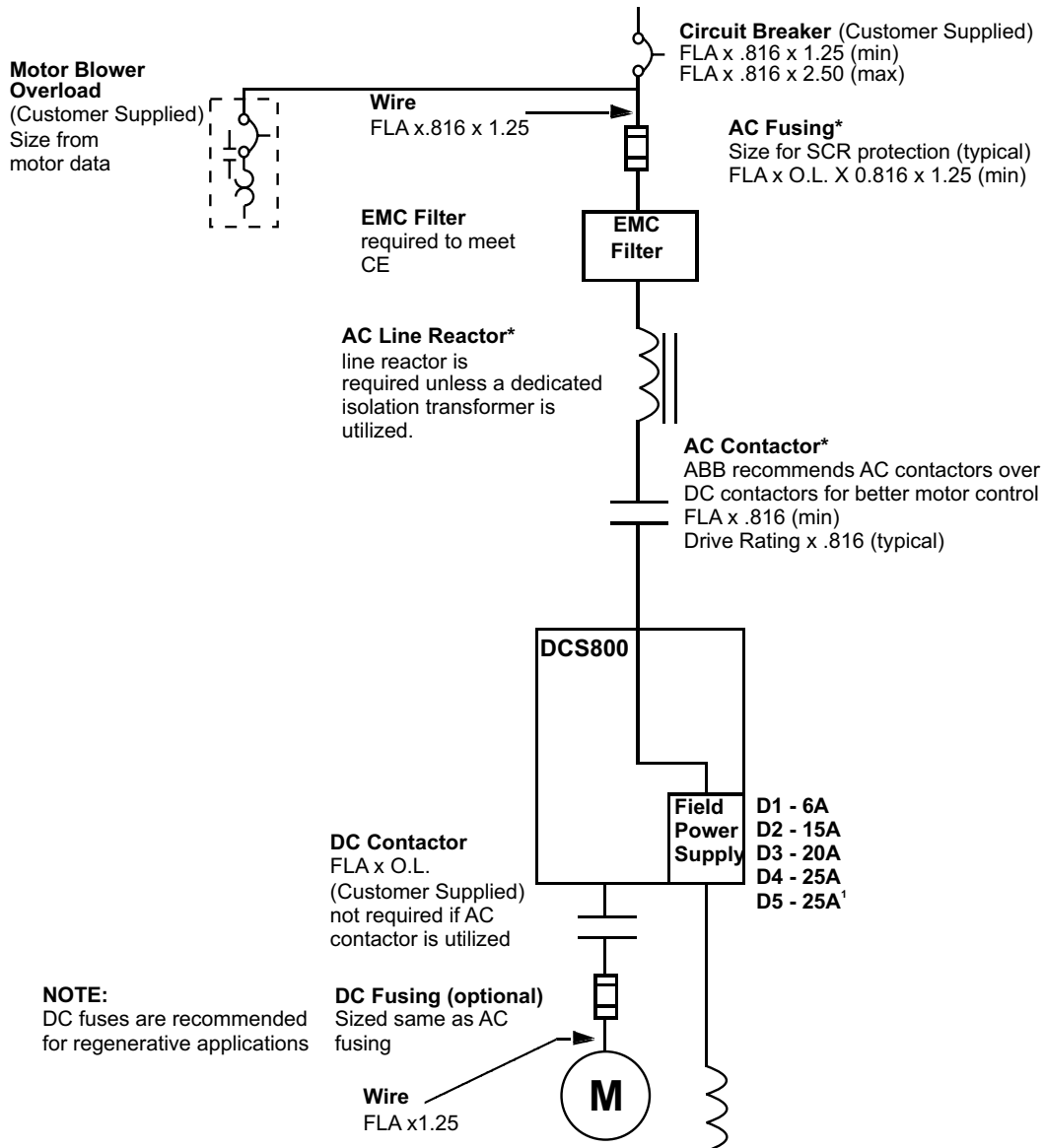
700Vdc Regenerative

Unit Type 4Q Converters	Normal Duty US 110%, 60 sec		Standard Duty US 150%, 30 sec		Heavy Duty US 150%, 60 sec		Frame Size	Price
	I_{2Nd} Amps	P_{Nd} HP	I_{2Sd} Amps	P_{Sd} HP	I_{2Hd} Amps	P_{Hd} HP		
DCS800-S02-0900-07	820	700	620	500	620	500	D5	\$22,952
DCS800-S02-1500-07	1428	1250	1160	1000	1160	1000		\$31,934
DCS800-S02-2050-07	1850	1500	1490	1250	1490	1250	D6	\$43,978
DCS800-S02-2500-07	2380	2000	1990	1750	1983	1750		\$55,593
DCS800-S02-3000-07	2790	2500	2280	2000	2275	2000		\$68,110
DCS800-S02-3300-07L	3035	2500	2380	2000	2380	2000	D7	\$70,830
DCS800-S02-3300-07R	3035	2500	2380	2000	2380	2000		\$70,830
DCS800-S02-4000-07L	3720	3250	2965	2500	2965	2500		\$93,885
DCS800-S02-4000-07R	3720	3250	2965	2500	2965	2500		\$93,885
DCS800-S02-4800-07L	4480	4000	3507	3000	3507	3000		\$118,976
DCS800-S02-4800-07R	4480	4000	3507	3000	3507	3000		\$118,976

Note:

- (1) Frame D6 drives do not include busbar tabs for the power connection. There are five - 4 hole lug terminals on the side of the drive unit (3 for AC, 2 for DC). If busbar tabs are required, they must be ordered separately. See "Supporting Installation Hardware" section in Common Options for ordering information.
- (2) Drives rated 600V and above do not include field supplies. A field supply is required for all DC motor applications. See "External Field Supplies" section for selection and ordering information.
- (3) In Frame Size D7 - the 'L' is for left-hand bus arrangement, the 'R' is for right-hand bus arrangement.

Component Sizing Information: D1 - D5 Frame (500Vdc)



Notes:

¹ Can be connected to an independent AC supply

* Product recommendations are included in this catalog. See section 3 for details.

Sizing information given on this page are general guidelines. Sizing of system components must comply with local and national electrical codes.

FLA = Nominal DC Motor Current

Motor Data:

HP _____ Model _____ Frame _____

RPM Base/Max _____ / _____

Armature Voltage _____ Amps _____

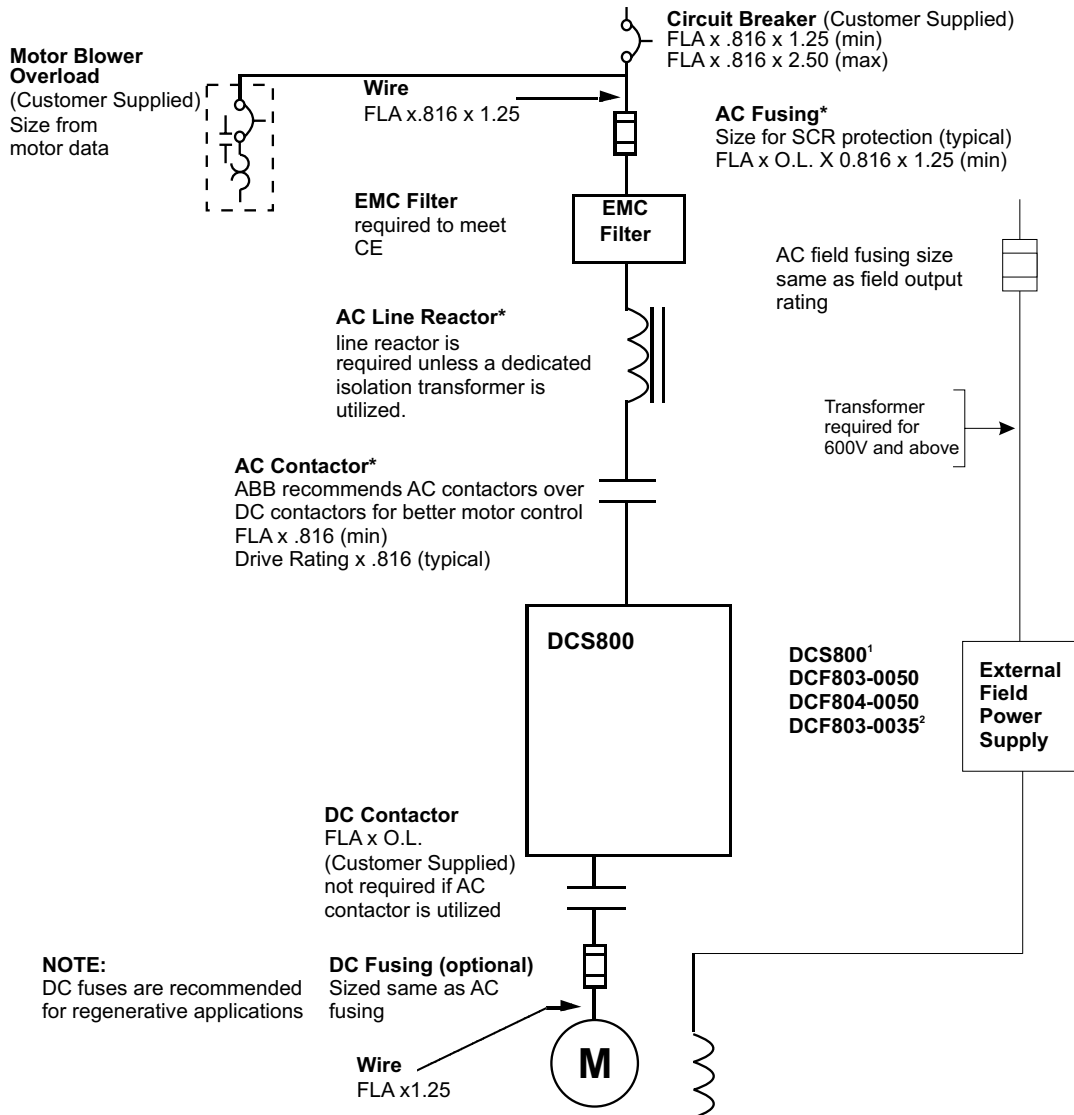
Field Voltage _____ / Amps _____ / _____ Ohms _____

Overload requirements / Duty cycle _____

Tach: _____ Encoder: _____
Volts/1000RPM _____ PPR _____

Blower:
Voltage _____ Amps _____ Phase _____

Component Sizing Information: D1 - D5 Frames (600 Vdc and above) and D6 - D7 Frames (all voltages)



Notes:

- ¹ Overvoltage protection unit and input reactor required
- ² Requires AC line reactor. For single phase supply, autotransformer is recommended
- * Product recommendations are included in this catalog. See section 3 for details.

Sizing information given on this page are general guidelines. Sizing of system components must comply with local and national electrical codes.

FLA = Nominal DC Motor Current

Motor Data:

HP _____ Model _____ Frame _____

RPM Base/Max _____ / _____

Armature Voltage _____ Amps _____

Field Voltage _____ / Amps _____ / _____ Ohms _____

Overload requirements / Duty cycle _____

Tach: _____ Encoder: _____
Volts/1000RPM _____ PPR _____

Blower:
Voltage _____ Amps _____ Phase _____



DC DRIVES DCS800

Supporting Installation Hardware																																																																				
Name	Description	Field Kit Code	Plus Code	List Price																																																																
AC & DC busbars for Frame D6 module	Busbar kit for multiple wire connections on frame D6 DCS800 module drives. The kit includes five (5) tinned copper busbar "ears" and mounting hardware. Dimension 250x140x100mm (LxHxD) and 10mm thick.	DCS800 D6 BUSBARS QTY5	NA	\$ 599																																																																
AC Line Fuses	<table border="1"> <thead> <tr> <th colspan="4">AC Line Fuses</th> </tr> <tr> <th colspan="2">Type of Converter</th> <th>Fuse</th> <th>Fuse Holder</th> </tr> <tr> <th>2-Q Converter</th> <th>4-Q Converter</th> <th>North America</th> <th>single-pole</th> </tr> </thead> <tbody> <tr> <td>DCS800-S01-0020-05</td> <td>DCS800-S02-0025-05</td> <td>FWP-50B</td> <td>1BS101</td> </tr> <tr> <td>DCS800-S01-0045-05</td> <td>DCS800-S02-0050-05</td> <td>FWP-80B</td> <td>1BS101</td> </tr> <tr> <td>DCS800-S01-0065-05</td> <td>DCS800-S02-0075-05</td> <td>FWP-125A</td> <td>1BS103</td> </tr> <tr> <td>DCS800-S01-0090-05</td> <td>DCS800-S02-0100-05</td> <td>FWP-125A</td> <td>1BS103</td> </tr> <tr> <td>DCS800-S01-0125-05</td> <td>DCS800-S02-0140-05</td> <td>FWP-200A</td> <td>1BS103</td> </tr> <tr> <td>DCS800-S01-0180-05</td> <td>DCS800-S02-0200-05</td> <td>FWP-250A</td> <td>1BS103</td> </tr> <tr> <td>DCS800-S01-0230-05</td> <td>DCS800-S02-0260-05</td> <td>FWP-300A</td> <td>1BS103</td> </tr> <tr> <td>DCS800-S01-0315-05</td> <td>DCS800-S02-0350-05</td> <td>FWP-500A</td> <td>1BS103</td> </tr> <tr> <td>DCS800-S01-0405-05</td> <td>DCS800-S02-0450-05</td> <td>FWP-700A</td> <td>BH-3</td> </tr> <tr> <td>DCS800-S01-0470-05</td> <td>DCS800-S02-0520-05</td> <td>FWP-700A</td> <td>BH-3</td> </tr> <tr> <td>DCS800-S01-0610-05</td> <td>DCS800-S02-0680-05</td> <td>FWP-900A</td> <td>busbar</td> </tr> <tr> <td>DCS800-S01-0740-05</td> <td>DCS800-S02-0820-05</td> <td>FWP-900A</td> <td>busbar</td> </tr> <tr> <td>DCS800-S01-0900-05</td> <td>DCS800-S02-1000-05</td> <td>FWP-1200A</td> <td>busbar</td> </tr> </tbody> </table> <p>Required AC Line Fuses are available directly from Bussman. For information, see their web page www.bussman.com. These are semiconductor type fuses. Three (3) are required per drive. See Hardware Manual for more information.</p>	AC Line Fuses				Type of Converter		Fuse	Fuse Holder	2-Q Converter	4-Q Converter	North America	single-pole	DCS800-S01-0020-05	DCS800-S02-0025-05	FWP-50B	1BS101	DCS800-S01-0045-05	DCS800-S02-0050-05	FWP-80B	1BS101	DCS800-S01-0065-05	DCS800-S02-0075-05	FWP-125A	1BS103	DCS800-S01-0090-05	DCS800-S02-0100-05	FWP-125A	1BS103	DCS800-S01-0125-05	DCS800-S02-0140-05	FWP-200A	1BS103	DCS800-S01-0180-05	DCS800-S02-0200-05	FWP-250A	1BS103	DCS800-S01-0230-05	DCS800-S02-0260-05	FWP-300A	1BS103	DCS800-S01-0315-05	DCS800-S02-0350-05	FWP-500A	1BS103	DCS800-S01-0405-05	DCS800-S02-0450-05	FWP-700A	BH-3	DCS800-S01-0470-05	DCS800-S02-0520-05	FWP-700A	BH-3	DCS800-S01-0610-05	DCS800-S02-0680-05	FWP-900A	busbar	DCS800-S01-0740-05	DCS800-S02-0820-05	FWP-900A	busbar	DCS800-S01-0900-05	DCS800-S02-1000-05	FWP-1200A	busbar			NA
AC Line Fuses																																																																				
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DCS800-S01-0405-05	DCS800-S02-0450-05	FWP-700A	BH-3																																																																	
DCS800-S01-0470-05	DCS800-S02-0520-05	FWP-700A	BH-3																																																																	
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Fuses for field supplies	<table border="1"> <thead> <tr> <th colspan="5">Fuses for Externally Supplied, Field Exciters</th> </tr> <tr> <th>Field Conv.</th> <th>Field Current</th> <th>Fuse Rating</th> <th>Bussmann Fuse Type</th> <th>Fuse Block</th> </tr> </thead> <tbody> <tr> <td>DCF803-0035</td> <td>$I_F \leq 6A$</td> <td>10A</td> <td>FWP-10B</td> <td>IBS101</td> </tr> <tr> <td>FEX-425-Int</td> <td>$I_F \leq 12A$</td> <td>15A</td> <td>FWP-15B</td> <td>IBS101</td> </tr> <tr> <td>DCF803</td> <td>$I_F \leq 16A$</td> <td>25A</td> <td>FWP-25B</td> <td>IBS101</td> </tr> <tr> <td>DCF804</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>DCF803</td> <td>$I_F \leq 30A$</td> <td>50A</td> <td>FWP-50B</td> <td>IBS101</td> </tr> <tr> <td>DCF804</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>DCF803</td> <td>$I_F \leq 50A$</td> <td>60A</td> <td>FWP-60B</td> <td>IBS101</td> </tr> <tr> <td>DCF804</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>Field supply fuses must be of semi-conductor type and must be installed after the AC supply auto-transformer and before any external line reactor. Note, DCF503-0050 and DCF-804-0050 have an internal reactor.</p>	Fuses for Externally Supplied, Field Exciters					Field Conv.	Field Current	Fuse Rating	Bussmann Fuse Type	Fuse Block	DCF803-0035	$I_F \leq 6A$	10A	FWP-10B	IBS101	FEX-425-Int	$I_F \leq 12A$	15A	FWP-15B	IBS101	DCF803	$I_F \leq 16A$	25A	FWP-25B	IBS101	DCF804					DCF803	$I_F \leq 30A$	50A	FWP-50B	IBS101	DCF804					DCF803	$I_F \leq 50A$	60A	FWP-60B	IBS101	DCF804							NA														
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DC DRIVES DCS800

Supporting Installation Hardware						
Name	Description			List Price		
AC Line Reactors	AC Line Reactors				NA	
	Type of Converter		1.5% Impedance	5.0% Impedance		
	2-Q Converter	4-Q Converter				
	500Vdc					
	DCS800-S01-0020-05	DCS800-S02-0025-05	KLR21BTB	KLR21CTB		
	DCS800-S01-0045-05	DCS800-S02-0050-05	KLR45BTB	KLR45CTB		
	DCS800-S01-0065-05	DCS800-S02-0075-05	KLR80BTB	KLR80CTB		
	DCS800-S01-0090-05	DCS800-S02-0100-05	KLR110BCB	KLR110CCB		
	DCS800-S01-0125-05	DCS800-S02-0140-05	KLR130BCB	KLR130CCB		
	DCS800-S01-0180-05	DCS800-S02-0200-05	KLR200BCB	KLR200CCB		
	DCS800-S01-0230-05	-	KLR200BCB	KLR200CCB		
	-	DCS800-S02-0260-05	KLR250BCB	KLR250CCB		
	DCS800-S01-0315-05	DCS800-S02-0350-05	KLR300BCB	KLR300CCB		
	DCS800-S01-0405-05	-	KLR360BCB	KLR360CCB		
	DCS800-S01-0470-05	DCS800-S02-0450-05	KLR420BCB	KLR420CCB		
	-	DCS800-S02-0520-05	KLR480BCB	KLR480CCB		
	DCS800-S01-0610-05	DCS800-S02-0680-05	KLR600BCB	KLR600CCB		
	DCS800-S01-0740-05	DCS800-S02-0820-05	KLR750BCB	KLR750CCB		
	DCS800-S01-0900-05	-	KLR750BCB	KLR750CCB		
	-	DCS800-S02-1000-05	KLR850BCB	KLR850CCB		
	DCS800-S01-1200-05	DCS800-S02-1200-05	KLR1100BCB	KLR1100CCB		
	DCS800-S01-1500-05	DCS800-S02-1500-05	KLR1250BCB	KLR1250CCB		
	600Vdc					
	DCS800-S01-0290-06	-	KLR250BCB	KLR250ECB		
	-	DCS800-S02-0320-06	KLR300BCB	KLR300ECB		
	DCS800-S01-0590-06	DCS800-S02-0650-06	KLR600BCB	KLR600ECB		
	DCS800-S01-0900-06	DCS800-S02-0900-06	KLR750BCB	KLR750ECB		
	DCS800-S01-1500-06	DCS800-S02-1500-06	KLR1250BCB	KLR1250ECB		
	<p>Recommended AC Line Reactors are available directly from TCI. For information, see their web page www.transcoil.com. Line reactor selection is determined by the drive power and system requirements. A minimum impedance of 1% is required unless an input isolation transformer is provided for each drive (1 to 5% impedance). See Hardware Manual for more information.</p>					
	AC Line Reactors for Externally Supplied Field Exciter	AC Line Reactors for Externally Supplied Field Exciter				NA
Field Supply		I_{Field}	Reactor			
SDCS-FEX-425-INT		<16A	KLR16BTB			
SDCS-FEX-425-INT		>16A	KLR35BTB			
DCF803-0035		<16A	KLR16BTB			
DCF803-0035		>16A	KLR35BTB			
DCF803-0050		-	Internal			
DCF804-0050		-	Internal			
See Note in "AC Line Reactors" section above.						



DC DRIVES DCS800

Supporting Installation Hardware (continued)					
Name	Description			List Price	
EMC Filters	EMC Filters			NA	
	2-Q Converter	4-Q Converter	Filter Type		List Price
	DCS800-S01-0020-05	DCS800-S02-0025-05	NF3-500-25		Consult Factory
	DCS800-S01-0045-05	DCS800-S02-0050-05	NF3-500-50		Consult Factory
	DCS800-S01-0065-05	DCS800-S02-0075-05	NF3-500-64		Consult Factory
	DCS800-S01-0090-05	DCS800-S02-0100-05	NF3-500-80		Consult Factory
	DCS800-S01-0125-05	DCS800-S02-0140-05	NF3-500-110		Consult Factory
	DCS800-S01-0180-05	DCS800-S02-0200-05	NF3-500-320		Consult Factory
	DCS800-S01-0230-05	DCS800-S02-0260-05	NF3-500-320		Consult Factory
	DCS800-S01-0315-05	DCS800-S02-0350-05	NF3-500-320		Consult Factory
	DCS800-S01-0405-05	DCS800-S02-0450-05	NF3-500-600		Consult Factory
	DCS800-S01-0470-05	DCS800-S02-0520-05	NF3-500-600		Consult Factory
	DCS800-S01-0610-05	DCS800-S02-0680-05	NF3-500-600		Consult Factory
	DCS800-S01-0740-05	-	NF3-500-600		Consult Factory
	-	DCS800-S02-0820-05	NF3-690-1000		Consult Factory
	DCS800-S01-0900-05	DCS800-S02-1000-05	NF3-690-1000		Consult Factory
	DCS800-S01-1200-05	DCS800-S02-1200-05	NF3-690-1000		Consult Factory
	DCS800-S01-1500-05	DCS800-S02-1500-05	NF3-690-1600		Consult Factory
	DCS800-S01-2000-05	DCS800-S02-2000-05	NF3-690-1600		Consult Factory
	<p>CE Compliance: Converters conform to the CE label and meet the low voltage specifications. External filters are required for full CE compliance. Responsibility for proving CE compliance of an installation is up to the end user. Consult the factory for current prices and lead times.</p>				



DC DRIVES DCS800

Supporting Installation Hardware (continued)																																																																																				
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<p>NOTE:</p> <ul style="list-style-type: none"> • Please contact your local ABB Controls representative for current contactor pricing. • The contactors above have been sized for a 100% continuous duty rating at 500V. For special O.L. and duty cycles the AC contactor size may need to be increased. 																																																																																				



DC DRIVES DCS800

Regulated Field Supplies				
Name	Description	Field Kit Code	Plus Code	List Price
External Field Supply	Externally mounted, half controlled 3 phase field exciter, with single quadrant operation. This field supply is current regulated with a max output current of 35amps with 3 phase input or 1 phase input voltage (auto transformer required for 1 phase operation). An input line reactor and fuses are required. Communication to the converter unit is required via the SDC-DSL-4 board, standard in frames D5-D7, optional in frames D1-D4.	DCF803-0035	NA	\$1,633
External Field Supply	Externally mounted, half controlled 1 phase field exciter, with single quadrant operation. This field supply is current regulated with a max output current of 50amps with 1 phase input voltage (auto transformer required for). Input line fuses required. Communication to the converter unit is required via the SDC-DSL-4 board, standard in frames D5-D7, optional in frames D1-D4.	DCF803-0050	NA	\$2,295
External Field Supply	Externally mounted, full controlled 1phase field exciter, with four quadrant operation (supports field reversal). This field supply is current regulated with a max output current of 50amps with 1 phase input voltage (auto transformer required). Input line fuses required. Communication to the converter unit is required via the SDC-DSL-4 board, standard in frames D5-D7, optional in frames D1-D4.	DCF804-0050	NA	\$2,602
External Field Supply	For high current field supply requirements a standard DCS800 converter unit will be used as the field controller. The converter drive can be used to supply up to 520amp for motor field in a single quadrant or four quadrant configuration with 3 phase input supply. An over voltage protection unit DCF506-0140-51 or -0520 must be used. The SDCS-DSL-4 communication board is required in the field converter and the armature converter for proper control	DCS800-S0x -xxxx-05+S199	NA	See Rating Table
Ext Field Supply Communication Cable	Interface cable for communication between the DCF external field supply and main converter. The cable also supports communication for 12 pulse operation and drive to drive communication with the SDCS-DSL-4 board. This cable is 21inches long.	DCS800-DSL CABLE P5M	NA	\$140
Ext Field Supply Communication Cable	Interface cable for communication between the DCF external field supply and main converter. The cable also supports communication for 12 pulse operation and drive to drive communication with the SDCS-DSL-4 board. This cable is 13feet long.	DCS800-DSL CABLE 4M	NA	\$175
OverVoltage Protection	The three phase field supply converters DCS800-S01 and -S02 drives need a separate active over voltage protection for proper operation on the inductive load of a motor field. This unit will protect the drive against inadmissible high voltages. The DCF506-0140 is to be used with -0020-05 through -0140-05 units.	DCF506-0140-51	NA	\$3,138
OverVoltage Protection	The three phase field supply converters DCS800-S01 and -S02 drives need a separate active over voltage protection for proper operation on the inductive load of a motor field. This unit will protect the drive against inadmissible high voltages. The DCF506-0520 is to be used with -0200-05 through -0520-05 units.	DCF506-0520-51	NA	\$3,488
OverVoltage Protection for non-Motor Applications	Non motor applications of the DCS800 on inductive loads require a separate active over voltage protection. For applications of this type utilizing a 2Q configuration (DCS800-S01-xxxx-05) select this unit for protection the drive against inadmissible high voltages. The DCF505-0140 is to be used with -0020-05 through -0140-05 units.	DCF505-0140-51	NA	\$1,972
OverVoltage Protection for non-Motor Applications	Non motor applications of the DCS800 on inductive loads require a separate active over voltage protection. For applications of this type utilizing a 2Q configuration (DCS800-S01-xxxx-05) select this unit for protection the drive against inadmissible high voltages. The DCF505-0520 is to be used with -0200-05 through -0520-05 units.	DCF505-0520-51	NA	\$2,728
OverVoltage Protection for non-Motor Applications	Non motor applications of the DCS800 on inductive loads require a separate active over voltage protection. For applications of this type utilizing a 2Q configuration (DCS800-S01-xxxx-05) select this unit for protection the drive against inadmissible high voltages. The DCF505-1200 is to be used with -0610-05 through -1200-05 units.	DCF505-1200-51	NA	\$3,208



DC DRIVES DCS800

Input / Output Options				
Name	Description	Field Kit Code	Plus Code	List Price
Drive to Drive Communication	The DSL board provides a drive to drive communication dedicated to the DCS800, based on CAN bus. This communication adapter is also used in 12-pulse operation and communication / control of external field. This board is standard in all D5-D7 frames and all frames rated 600vdc or greater.	SDCS-DSL-4	+S199	\$234
DDCS Communications	Fiber optic communication interface board and CDP312RD panel support <ul style="list-style-type: none"> • CH 0 - 10Mb - overriding system control (APC2, AC80, etc.) • CH 1 - 5Mb - is used for DDCS I/O extension. AIMA-01 • CH 2 - 10Mb - Master-Follower link (drive to drive) • CH 3 - 10Mb - PC tool such as DriveWindow • X19 is used for CDP312RD panel for Master-Follower interface to ACS800 use the RDCO-01C or -02C	SDCS-COM-81	+L508	\$768
DDCS Communications	Fiber optic communication interface board and CDP312RD panel support <ul style="list-style-type: none"> • CH 0 - 5Mb - overriding system control (APC2, AC80, Nxxx module) • CH 1 - 5Mb - is used for DDCS I/O extension. AIMA-01 • CH 2 - 10Mb - Master-Follower link (drive to drive) • CH 3 - 10Mb - PC tool such as DriveWindow • X19 is used for CDP312RD panel for Master-Follower interface to ACS800 use the RDCO-01C or -02C	SDCS-COM-82	+L509	\$768
External Isolated Digital I/O	Replaces the standard digital inputs and outputs with 8 DI/O points externally mounted with input voltage level of 24...48V DC The inputs are filtered and galvanically isolated by using opto-couplers. Inputs can form 2 galvanically separated groups by using X7:1 or X7:2. The outputs 1-5 & 8 are NO relay contacts and outputs 6&7 are potential isolated by opto-coupler with 24vdc sourced externally. Terminals X6 & X7 on the main control must not be used when a SDCS-IOB-2x board is installed.	SDCS-IOB-21 w/1 CABLE	NA	\$583
External Isolated Digital I/O	Replaces the standard digital inputs and outputs with 8 DI/O points externally mounted with input voltage level of 115 V AC The inputs are filtered and galvanically isolated by using opto-couplers. Inputs can form 2 galvanically separated groups by using X7:1 or X7:2. The outputs 1-5 & 8 are NO relay contacts and outputs 6&7 are potential isolated by opto-coupler with 24vdc sourced externally. Terminals X6 & X7 on the main control must not be used when a SDCS-IOB-2x board is installed.	SDCS-IOB-22 w/1 CABLE	NA	\$583
External Isolated Digital I/O	Replaces the standard digital inputs and outputs with 8 DI/O points externally mounted with input voltage level of 230 V AC The inputs are filtered and galvanically isolated by using opto-couplers. Inputs can form 2 galvanically separated groups by using X7:1 or X7:2. The outputs 1-5 & 8 are NO relay contacts and outputs 6&7 are potential isolated by opto-coupler with 24vdc sourced externally. Terminals X6 & X7 on the main control must not be used when a SDCS-IOB-2x board is installed.	SDCS-IOB-23 w/1 CABLE	NA	\$583
External Isolated Analog I/O	This board consists of the 5 analog inputs, 3 analog outputs, the galvanically isolated pulse encoder interface and a current source for temperature measuring devices. The analog tachometer on the main control must not be used when a SDCS-IOB-3 board is installed.	SDCS-IOB-3 w/2 CABLES	NA	\$618
External Isolated Analog & Digital I/O	This kit provides both the SDCS-IOB-21 board and the SDCS-IOB-3 board with all required cables in one kit. Please see related descriptions above for specific features. The kit includes 3 cables total, 2 for connected to the drive unit and 1 for interconnection between the IOB boards.	SDCS-IOB-21 / IOB-3 2 CABLES	NA	\$1,184
External Isolated Analog & Digital I/O	This kit provides both the SDCS-IOB-22 board and the SDCS-IOB-3 board with all required cables in one kit. Please see related descriptions above for specific features. The kit includes 3 cables total, 2 for connected to the drive unit and 1 for interconnection between the IOB boards.	SDCS-IOB-22 / IOB-3 2 CABLES	NA	\$1,184



DC DRIVES DCS800

Input / Output Options (continued)				
Name	Description	Field Kit Code	Plus Code	List Price
External Isolated Analog & Digital I/O	This kit provides both the SDCS-IOB-23 board and the SDCS-IOB-3 board with all required cables in one kit. Please see related descriptions above for specific features. The kit includes 3 cables total, 2 for connected to the drive unit and 1 for interconnection between the IOB boards.	SDCS-IOB-23 / IOB-3 2 CABLES	NA	\$1,184
Analog I/O Extension Module	The Analog I/O Extension module offers two unipolar current (0[4]...20 mA) or bipolar voltage ($\pm 0[2]$...10 V or ± 0 ...2 V) inputs and two unipolar current (0[4]-20 mA) outputs. Analog unipolar inputs are 12 bit resolution. Bipolar inputs are 11 bit resolution. Analog outputs are 12 bit resolution. The analog inputs and outputs are galvanically isolated as a group, from each other and the power supply. This option, when installed internally to the ACS 800, uses 120 mA of the available 250 mA power supply.	RAIO-01-KIT	+L500	\$465
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, when installed internally to the DCS800, uses 30 mA of the available 250 mA power supply.	RDIO-01-KIT	+L501	\$465
I/O Extension Adapter * Requires DDCS Communication	The I/O extension adapter adds support for 3 additional (R) type adapters for the DCS800. This module is mounted by the user external from the drive unit. Adapter is DIN rail mountable . The SDCS-COM-8x is required for support of this option	AIMA-01-KIT	NA	\$730

NOTES:

- 1, A maximum of three (3) Rxxx type options are allowed. If additional options are required, the AIMA-01 extension adapter is required.
- 2, When the SDCS-COM-8x is installed in the drive, only two (2) Rxxx type options can be installed inside the drive.
- 3, Factory installed options will extend lead time, Order as field kit in separate line item for quick ship from stock.

FieldBus Communication Options				
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	\$465
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	\$465
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	\$465
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	\$650



DC DRIVES DCS800

FieldBus Communication Options (continued)				
Name	Description	Field Kit Code	Plus Code	List Price
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	\$695
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	\$1,550

NOTES:

- 1, A maximum of three (3) Rxxx type options are allowed. If additional options are required, the AIMA-01 extension adapter is required.
- 2, When the SDCS-COM-8x is installed in the drive, only two (2) Rxxx type options can be installed inside the drive.
- 3, Factory installed options will extend lead time, Order as field kit in separate line item for quick ship from stock.

Control Panel & Panel Accessories				
Name	Description	Field Kit Code	Plus Code	List Price
Control Panel	DCS800 control panel - included in all drives	DCS800-PAN	NA	\$230
Cabinet Panel Mounting	Control Panel Mounting Platform allows remote mounting of the keypad on an enclosure or remote panel. The kit maintains UL Type 12 integrity of the mounting location. Adapters, 3 m (10 ft) cable and mounting hardware are included in this kit. With this mounting arrangement, the keypad is removeable from the panel in a fashion identical to a drive-mounted keypad	OPMP-01	NA	\$138
Panel Extension Cable	7 foot CAT 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 seperately.	OCAT-01	NA	\$40
Cabinet Panel Mounting	Panel mounting platform for CDP312RD is NEMA 12 rated, includes the 3 meter cable. (Requires SDCS-COM-8x) Maximum door panel thickness 14ga (2.5mm)	RPMP-11	NA	\$305
Cabinet Panel Mounting	Legacy Panel mounting platform for the CDP312RD, 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 CDP312RD panel must be purchased separately.	NPMP-01-KIT	NA	\$345
Optional Control Panel	CDP312RD Control panel option. Requires additional mounting platform and SDCS-Com-8x drive interface card.	CDP312RD	NA	\$344



DC DRIVES DCS800

Fiber Optic cables and Branching units				
Name	Description	Field Kit Code	Plus Code	List Price
Branching Unit	Star connection branching unit with nine (9) output connections. Eight (8) output connections rated for 5Mb, one (1) rated for 10Mb.	NDBU-85C	NA	\$1,370
Branching Unit	Star connection branching unit with 9 output connections. Nine (9) output connections rated for 10Mb.	NDBU-95C	NA	\$1,625
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	\$3,053
Fiber Optic cable	Single plastic fiber optic, Qty2, 2 meter long	NLWC-02	NA	\$91
Fiber Optic cable	Single plastic fiber optic, Qty2, 3 meter long	NLWC-03	NA	\$117
Fiber Optic cable	Single plastic fiber optic, Qty2, 5 meter long	NLWC-05	NA	\$140
Fiber Optic cable	Single plastic fiber optic, Qty2, 7 meter long	NLWC-07	NA	\$163
Fiber Optic cable	Single plastic fiber optic, Qty2, 10 meter long	NLWC-10	NA	\$208
Fiber Optic cable	Double plastic fiber optic, Qty1, 0.5 meter long	PN - 61059130	NA	\$140
Fiber Optic cable	Double plastic fiber optic, Qty1, 2 meter long	PN - 61059121	NA	\$172
Fiber Optic cable	Double plastic fiber optic, Qty1, 5 meter long	PN - 61059113	NA	\$241
Fiber Optic cable	Double plastic fiber optic, Qty1, 10 meter long	PN - 61046534	NA	\$289

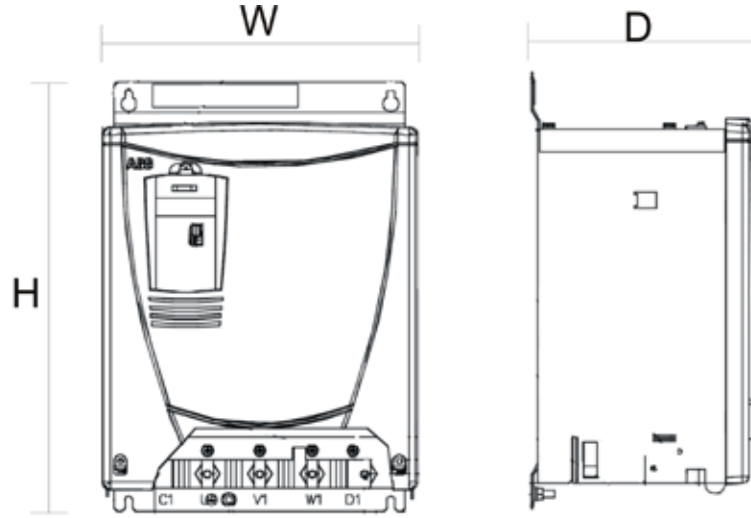


DC DRIVES DCS800

Driveware options				
Name	Description	Field Kit Code	Plus Code	List Price
Control Builder License with Compact Flash memory card	Compact Flash memory card with electronic license control for CoDeSys programming software. This unique memory card for the DCS800 unlocks the programming features of this exceptionally flexible tool. Control Builder is the PC tool package that includes the CoDeSys programming (included with each drive). This programming tool is compliant with the IEC 61131-3 standard. The target audience for this optional programming tool are System Integrator's, OEM's, and Large Users who need the ability to develop their own application specific programs or wish eliminate the need for an external controller. For those who wish to become Control Builder experts, training is available through ABB drive training group beginning 2Q 2007. Control Builder experts will be eligible for a special programming license discount. Control Builder supports Microsoft Windows 2000 & XP.	SDCS-MEM-8	NA	\$3,775
Drive AP 1.1x	Drive AP for support of Adaptive Programming in the DCS800 is not required. The standard DWL included with all DCS800 drives includes support for AP configuration.	NA	NA	NA
DriveWindow Light 2.3x	DriveWindow Light is included as standard with every DCS800. A reduced version of ABB's full DriveWindow package. DriveWindow Light communicates via an RS232 to RS485 adapter, using a serial connection. DriveWindow Light supports Microsoft Windows operating systems (Windows NT4, 2000, & XP). <ul style="list-style-type: none"> • Upload/download drive parameter files, save and copy • Compare files • Drive Adaptive Programming support • Trending (on a limited basis) • Drive Control (Start, Stop, Speed Ref) 	3AFE64532871	NA	\$275
DriveWindow 2.1x with Hardware	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). <ul style="list-style-type: none"> • 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	\$1,944
DriveWindow 2.1x without Hardware	DriveWindow install CD (upgrade) Hardware is not included.	3AFE64547968	NA	\$653
PCI adapter card for PCMCIA card	PCI socket adapter card for support of PCMCIA card in desktop PC	3AFE64510304	NA	\$497

Miscellaneous				
Name	Description	Field Kit Code	Plus Code	List Price
DCS800 Democase	Powered by 115VAC the DCS800 Democase includes a DCS800 frame D1 drive mounted on a panel. Included is a motor with analog tachometer and an I/O board.	DCS800-DEMOCASE	NA	\$5,795

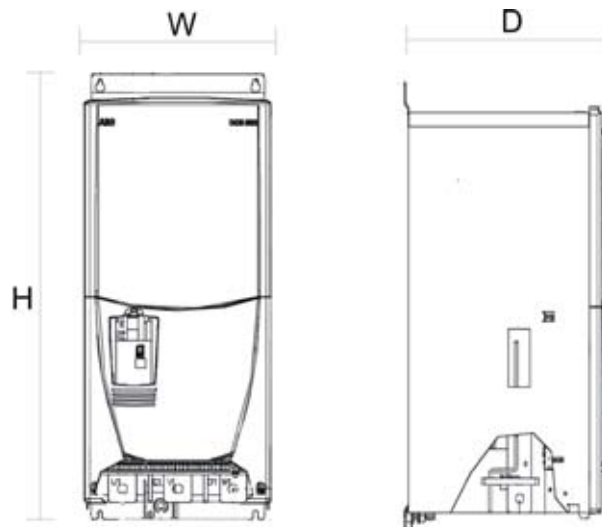
Dimensions: Frame Size D1 - D3



Dimensions	Imperial Units (in) (lbs)				Metric Units (mm) (kg)				Shipping Dimensions* (in) (lbs)			
	H	W	D	Weight	H	W	D	Weight	H	L	W	Weight
D1	14.6	10.6	7.9	24.3	370	270	200	11	14.8	20.3	14.4	31
D2	14.6	10.6	10.5	35.3	370	270	267	16	14.8	20.3	14.4	42
D3	18.1	10.6	12.2	55.1	459	270	310	25	14.8	20.3	14.4	62

*Note: Product is shipped laying on back.

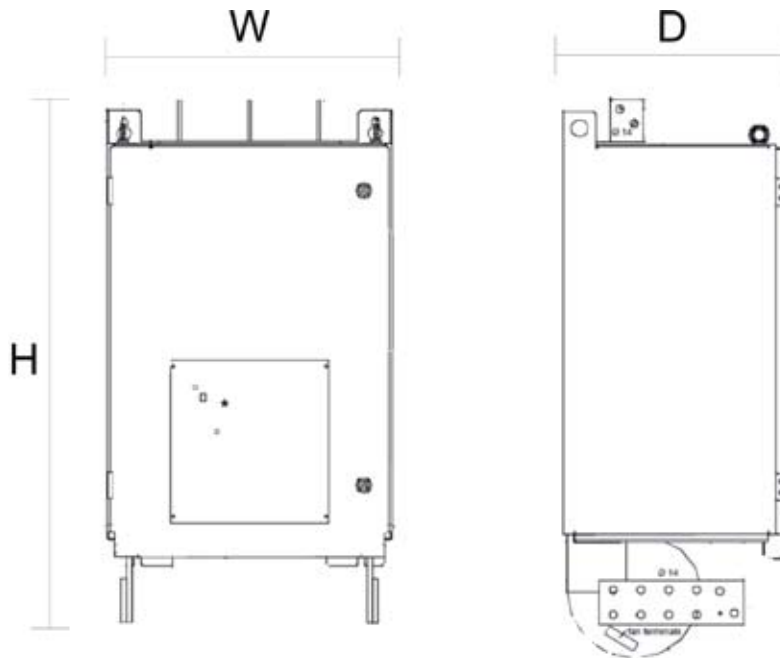
Dimensions: Frame Size D4



Dimensions	Imperial Units (in) (lbs)				Metric Units (mm) (kg)				Shipping Dimensions* (in) (lbs)			
	H	W	D	Weight	H	W	D	Weight	H	L	W	Weight
D4	24.2	10.6	13.6	83.8	614	270	346	38	23.8	31.5	23.6	103

*Note: Product is shipped laying on back.

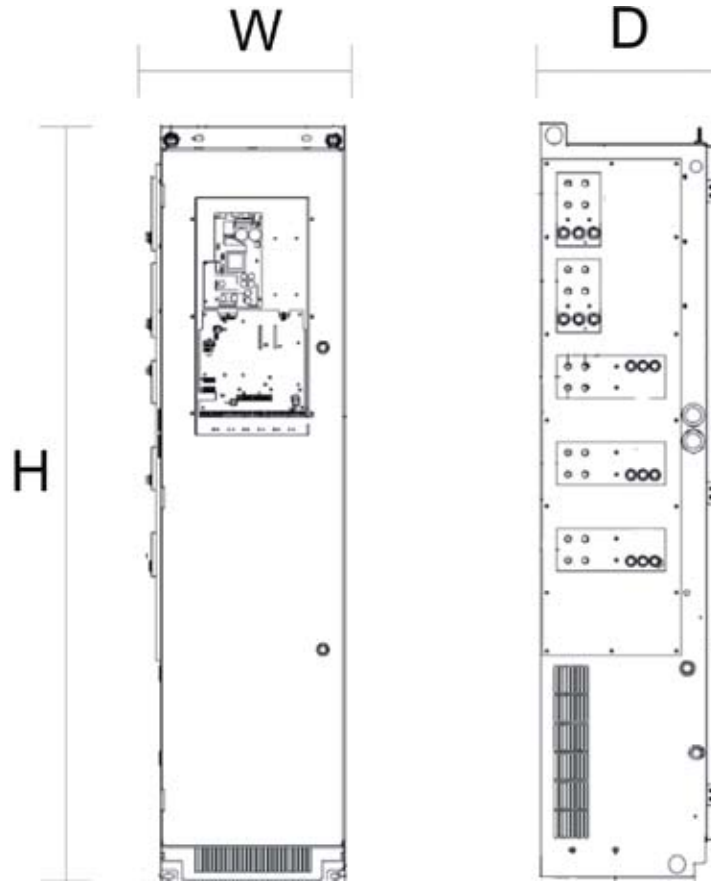
Dimensions: Frame Size D5



Dimensions	Imperial Units (in) (lbs)				Metric Units (mm) (kg)				Shipping Dimensions* (in) (lbs)			
	H	W	D	Weight	H	W	D	Weight	H	L	W	Weight
D5	36.3	20.1	15.7	242.5	922	510	400	110	27.0	47.2	31.5	295

*Note: Product is shipped laying on back.

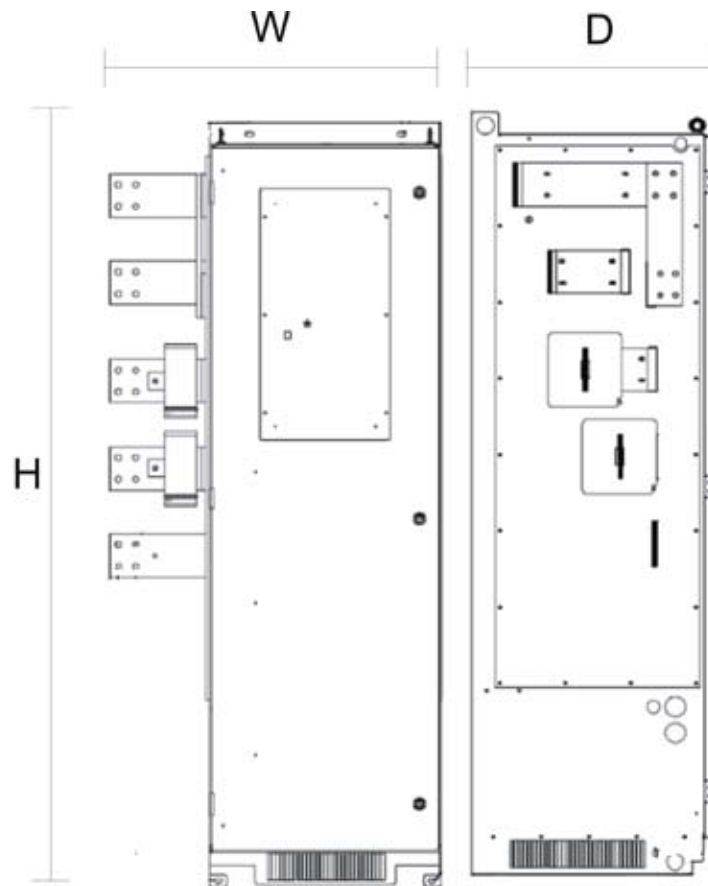
Dimensions: Frame Size D6



Dimensions	Imperial Units (in) (lbs)				Metric Units (mm) (kg)				Shipping Dimensions* (in) (lbs)			
	H	W	D	Weight	H	W	D	Weight	H	L	W	Weight
D6	68.9	18.0	16.1	396.8	1750	458	409	180	28.3	78.0	22.4	507

*Note: Product is shipped laying on back.

Dimensions: Frame Size D7



Dimensions	Imperial Units (in) (lbs)				Metric Units (mm) (kg)				Shipping Dimensions* (in) (lbs)			
	H	W	D	Weight	H	W	D	Weight	H	L	W	Weight
D7	67.9	29.9	22.0	694.5	1725	760	559	315	32.3	78.0	34.4	827

*Note: Product is shipped laying on back.



DC DRIVES DCS800



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