

DCS800-EP1 and DCS800-EP2 Panel Drive

10 – 600 HP, 230/480 Vac

The DCS800 Panel Drive is a pre-engineered solution for quick and easy design and installation. All required peripheral components are included on a space-efficient back panel, ready to be mounted into an industrial enclosure, saving time of procuring, mounting and wiring individual system components. The drive is an excellent replacement for the Reliance Electric® FlexPak 3000®. It has the same bolt pattern, similar features, and fits within the FlexPak 3000 clearance area.



The drive includes the same DCS800-S01/S02 module customers have become familiar with. It also includes AC and DC fusing, contactor, and control transformer. Optional features include circuit breaker, internal line reactor, and blower motor contactor and overload.

The drive meets UL 508A with a 65 kA short circuit current rating (SCCR). It is pre-wired and pre-tested to make installation and start up go quickly. Its has a dry auxiliary contact for the main contactor accessible from the terminal strip and allows tool access to individual components within.

Highlights

- Space efficient multilevel panel
- Easy to maintain
- Pre-wired, pre-tested solution for smooth start ups
- Greatly simplifies the procurement process
- Module can be replaced without replacing the entire panel
- Integral ABB AC contactor
- UL Listed with 65 kA SCCR

Voltage and Power Range

- 460 Vac, factory or field convertible to 230 Vac
- 10 to 500 HP with heavy duty overload ratings (150 pct for 60 sec.)
- 600 HP with normal duty ratings (110 pct for 60 sec.)

Applications

- Extruders
- Steel mills
- Pipe mills
- Retrofits

Options

- Integral line reactor up to 150 HP
- Circuit breaker, ABB Tmax MCP
- Blower motor contactor and overload, ABB A-line, for blowers from ½ to 15 HP
- Without AC contactor
- 230 Vac supply

Optional Blower Motor
Contactor with Overload
(+M6xx)

Easy Access to Control Fuses

AC Fuses Below Starter

Optional Line Reactor
(10-150 hp)
(+E213)

Control Transformer

Top Access to AC Power and DC
Motor Terminals, and Fuses

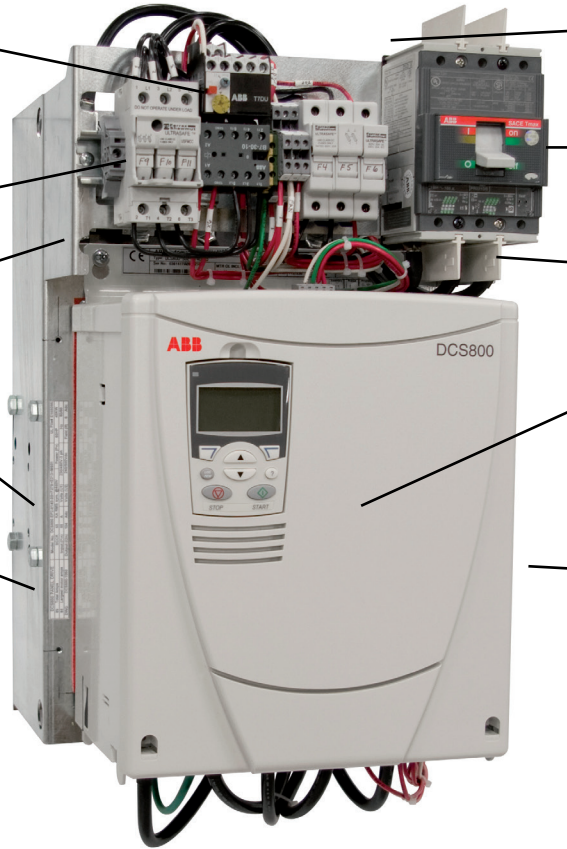
Optional Circuit Breaker
(+F278)

DC Fuses (regen) Below
Circuit Breaker

Standard DCS800 Drive Module

Contactor

Optional 230V supply
(+S235)



DCS800-PHPB02U-EN REV E Effective: 06/01/2015

Non-Regenerative (2Q)	Regenerative (4Q)	460Vac / 500Vdc		230Vac / 240Vdc		Height	Width	Depth
		Output A _{dc}	P _{HD} HP	Output A _{dc}	P _{HD} HP			
DCS800-EP1-0020-05	DCS800-EP2-0025-05	17	10	20	5	18.8	12.2	14.4
DCS800-EP1-0045-05	DCS800-EP2-0050-05	35	20	37	10	18.8	12.2	14.4
DCS800-EP1-0065-05	DCS800-EP2-0075-05	53	30	54	15	18.8	12.2	14.4
DCS800-EP1-0090-05	DCS800-EP2-0100-05	68	40	71	20	18.8	12.2	14.4
DCS800-EP1-0125-05	DCS800-EP2-0140-05	104	60	104	30	18.8	12.2	14.4
DCS800-EP1-0180-05		125	75	125	30	19.3	20.0	13.8*
	DCS800-EP2-0200-05	164	100	175	50	19.3	20.0	13.8*
DCS800-EP1-0230-05	DCS800-EP2-0260-05	205	125	206	60	19.3	20.0	13.8*
DCS800-EP1-0315-05	DCS800-EP2-0350-05	245	150	255	75	19.3	20.0	13.8*
DCS800-EP1-0405-05	DCS800-EP2-0450-05	325	200	341	100	35.3	25.4	16.2
DCS800-EP1-0470-05	DCS800-EP2-0520-05	405	250	425	125	35.3	25.4	16.2
DCS800-EP1-0610-05	DCS800-EP2-0680-05	480	300	506	150	35.3	25.4	16.2
DCS800-EP1-0740-05	DCS800-EP2-0820-05	640	400			45.7	26.7	16/19.7**
DCS800-EP1-0900-05	DCS800-EP2-1000-05	795	500			45.7	26.7	16/19.7**
	DCS800-EP2-1010-05	950	600			45.7	26.7	16/19.7**

NOTES:

Overload rating: 150% for 60 seconds except 600 hp (110% for 60 seconds).

*19.3 inch depth when internal reactor option is included.

**Depth without circuit breaker option / with circuit breaker option

For more information please contact:

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www.abb.us/drives

For additional replacement information and video
www.drivesanswers.com/8

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