

# DC590+ Size 6

## High Power DC System Drive



### Description

The Parker SSD High Power DC System Drive is among the smallest drives of that rating available on the market.

Supplied in modules to mount directly on the cubicle backplane, it is easy to install and service. Highly versatile, the drive can be wired with top or bottom AC power supply input as well as left or right DC exit.

The DC590+ size 6 has been designed for optimum reliability and efficiency. Thus, to minimize wear and tear and save energy, the fans are only switched on when required ; built-in snubbers allow a reliable operation even on disturbed main supplies.

Like the whole DC590+ family, the size 6 is open to popular industrial protocols, including Ethernet, ProfiBus and DeviceNet, with available option cards. It comes with a full set of handy function blocks dedicated to section control which virtually eliminates the need for an external PLC.



### Contact Information

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### Product Features

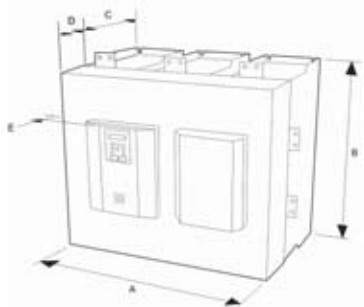
- 2-quadrant or 4-quadrant regenerative variants
- Armature current ratings
  - 1250A with overload and 1350A no overload. 750 HP @ 500Vdc
  - 1600A with overload and 1750A no overload. 1000 HP @ 500Vdc
  - 1950A with overload and 2150A no overload. 1250 HP @ 500Vdc
- Built-in 60A field current controller
- Voltage ratings :
  - 380 - 500Vac
  - 690Vac/600Vac UL.
- Overload :
  - 150% for 30 seconds
  - 200% for 10 seconds.
- Speed feedback : analog tacho, incremental encoder
- Versatile installation :
  - Bottom or top power supply entry
  - Left or right DC motor exit
- Built-in fuses
- Built-in snubbers for AC line and thyristors
- Meets CE and UL.



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# Specifications

## Dimensions



A	B	C	D	E
686 (27.00)	715 (28.15)	378 (14.88)	62 (2.44)	57 (2.24)

Dimensions are in mm (inches)

## Electrical ratings

### Power circuit

Output Current 150% x 30sec 200% x 10sec (Amps)	Output Current 100% Continuous (Amps)	Power @ 500V dc (kW)	Motor HP @ 500V dc (HP)	Field Current (Amps)	Total Losses @ Full Load (W)	Symmetrical Fault current rms (kAmps)
1250	1350	600	800	60	4600	100
1600	1750	750	1000	60	5000	100
1950*	2150	900	1200	60	6000	100

\* For a 690V power supply, max. output current is 1850A.

### Power supply

3-Phase Supply	HV Build	Frame 6	690V ac $\pm 10\%$ , 50/60Hz $\pm 5\%$ , line-to-line, ground referenced (TN) and non-ground referenced (IT)
	MV Build	Frame 6	500V ac $\pm 10\%$ , 50/60Hz $\pm 5\%$ , line-to-line, ground referenced (TN) and non-ground referenced (IT)
3 Phase Input		3-phase	rotation insensitive, no adjustment necessary for frequency change

### Auxiliary supply

Auxiliary Supply 115-230V  $\pm 10\%$ , 50-60Hz  $\pm 10\%$ , single phase, Overvoltage Category II

## How to order ?

The new DC590+ size 6 can be ordered as other frames of the DC590+ series., just by using the new current ratings :

1250A, 1600A, 1950A

Ex : 590P/1250/690/...

You will receive a package containing :

- Three Phase Assemblies
- One Control Assembly

## Typical installation



A typical installation includes the following components :

- circuit breaker
- line choke
- phase assemblies
- control assembly
- cover

