

DC400

DRIVES FOR EVERY INDUSTRY

Regenerative & Non-regenerative Digital DC Drive
20 to 1000 A, 230 to 500V, 3 Phase

The smallest drive in its class...



Saftronics' DC400 combines the important features for modern DC drive applications.

...the smallest footprint in its class

Simple Operation

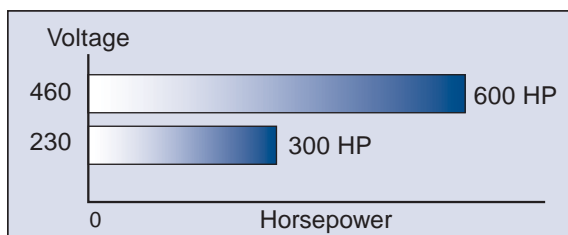
A commissioning wizard, accessed using either the control panel or a PC with Saflink software, simplifies handling of the drive and reduces your commissioning time. Pre-programmed application macros guarantee correct engineering and fast commissioning.

Modern Technology

Modern production techniques, combined with high quality components, ensure consistent reliability.

Smallest Drive in its Class

The DC400's compact design brings substantial savings to machine builders, allowing them to integrate more accessories within the same space.



Standard Features

- Autotuning for Armature, Field and Speed controller
- Patented integrated field supply includes fuses and choke
- Two adjustable ramp generators
- Speed feedback via tach, encoder and EMF regulator
- External torque limitation
- Automatic field weakening
- Remote/Local control logic
- Automatic phase sequence detection
- Motor overload protection
- Configuration macros
- Jog function



DC400 Control Panel

Removable control and display panel with text display for:

- Self-Guided commissioning
- Drive Control
- Parameter programming
- Fault detection
- Reference and feedback display
- Lockable operation



DC400

The smallest drive in its class...

Power Spectrum

2-Q, Non-regenerative

MODULE FRAME SIZE	CONVERTER	ARMATURE AMPS 150% for 60 sec (10% Duty Cycle)	FIELD CURRENT (A)
A1	SAF401-0020	20	0.1 to 4
	SAF401-0045	45	
	SAF401-0065	65	
	SAF401-0090	90	
	SAF401-0125	125	
A2	SAF401-0180	180	0.3 to 16
	SAF401-0230	230	
A3	SAF401-0315	315	
	SAF401-0405	405	
	SAF401-0500	500	
A4	SAF401-0610	610	
	SAF401-0740	740	
	SAF401-0900	900	

4-Q, Regenerative

MODULE FRAME SIZE	CONVERTER	ARMATURE AMPS 150% for 60 sec (10% Duty Cycle)	FIELD CURRENT (A)
A1	SAF402-0025	25	0.1 to 4
	SAF402-0050	50	
	SAF402-0075	75	
	SAF402-0100	100	
	SAF402-0140	140	
A2	SAF402-0200	200	0.3 to 16
	SAF402-0260	260	
A3	SAF402-0350	350	
	SAF402-0450	450	
	SAF402-0550	550	
A4	SAF402-0680	680	
	SAF402-0820	820	
	SAF402-1000	1000	

Dimensions

MODULE	MM			Inches		
	H	D	W	H	D	W
A1	310	200	270	13	11	8
A2	310	270	270	13	11	11
A3	400	310	270	16	13	11
A4	580	345	270	23	14	11

Technical Data

Converter Ratings

Rated Supply Voltage:	230 to 500V +/- 10%
Input Voltage Phase:	3 Phase AC
Rated Frequency:	50 or 60 Hz
Dynamic Frequency Range:	45-65 Hz
df/dt:	17%/sec
DC Current:	20 to 1000A
Operating Limits	
Ambient Temperature:	+40° F to 104° F (+5° C to +40° C)
Storage Temperature:	+40° F to 130° F (+5° C to +55° C)
Relative Humidity:	95%, Non-condensing
Enclosure Chassis:	IP 00

Standard I/O Connections

- 8 Digital Inputs
- 5 Digital Outputs
- 2 Analog Inputs
- 2 Analog Outputs
- 1 Tachometer Input
- 1 Encoder Input
- Multiple Fieldbus Adapters Available

Protection

- Speed Feedback Loss
- Overtemperature
- Overload
- Overspeed
- Armature Overcurrent
- Armature Overvoltage
- Armature Current Ripple
- Minimum Field Current
- Maximum Field Current
- Motor Stall

Saflink Compatible



24/7
Emergency
Support

Call 