

Opal Series 556

REDUCED VOLTAGE STARTER FOR THREE-PHASE INDUSTRIES



What do you save with the Opal Series of Reduced Voltage AC Starters?

First, SAF engineers reduced the cost by eliminating the need for expensive add-ons while improving the quality and performance of each unit. They're small, easy to handle and have Phase Rotation Insensitivity - three labour saving features that reduce time during installation & setup.

This improved series of AC soft starters reduces torque shock to a bare minimum. With less stress on the Power Transmission System you'll save on belt-life and maintenance. Opal Starters are very adaptable. They have universal voltage from 200 to 600V AC 50/60HZ. Each unit handles a wide range of applications, so there's no need to stock as many back-ups.

Reduced cost, ease of installation, simplicity, adaptability and performance are just some of the ways you'll save with the Opal Series of Reduced Voltage AC Starters. Feel free to contact your SAF representative for further information.

FEATURING

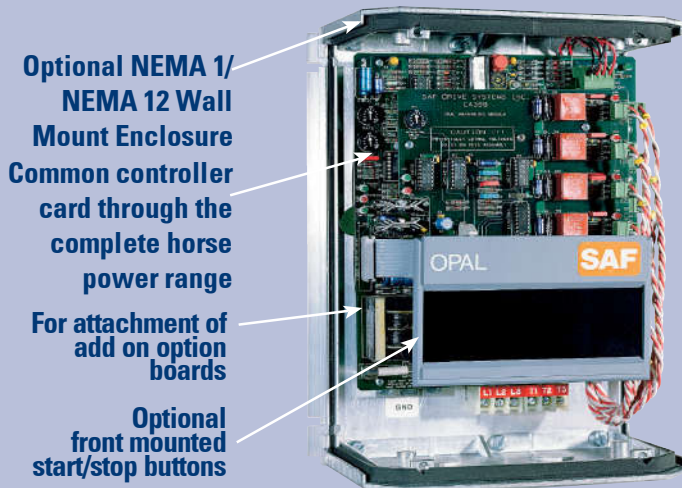
Universal Voltage

200-600V 50/60Hz

1600 PIV Devices

500% Overload

5 Year Warranty



Optional NEMA 1/
NEMA 12 Wall
Mount Enclosure
Common controller
card through the
complete horse
power range

For attachment of
add on option
boards

Optional
front mounted
start/stop buttons

STANDARD FEATURES

- Universal voltage, 200-600 V, 50/60Hz (no adjustments)
- Dual operational modes to match any application
 - constant current
 - current ramp
- LED and Neon status and diagnostics
- Extremely simple user set-up and calibrate by rotary switch
- Phase rotation insensitive
- Single phase protection
- Electronic motor overload, Class 20 (Optional Class 10)
- Instantaneous over current protection
- Heavy duty overload, 500% for 30 seconds
- Closed loop current regulation

OPTIONAL FEATURES

Solid State Reversing

Through the addition of 4 SCRs and a reversing card, motor reversing is achieved without having to stop the motor.

Soft Stop

Motor deceleration is controlled to eliminate water hammer effect on pump applications.

By-Pass Contactor

By-Pass is closed once the motor has reached operational speed saving power and eliminating the heat generated in the SCRs through the voltage drop.

NEMA 1, NEMA 12, NEMA 4 and NEMA 4X Enclosures Available

Up-To-Speed Contact and Sheer Pin Protection

Shorted SCR Protection

Sensor detects shorted SCR and trips circuit breaker.

DC Injection Braking

DC current is used to provide controlled rapid stopping of the motor.

Combination Starter

Circuit breaker or fused disconnect switch.

18 Neville St., Unit C
New Hamburg, ON
CAN N3A 4G7

Toll Free: 1-800-3-ASK-SAF
Fax: 1-866-280-5247

SAF Drives Inc.

www.products.safdrives.com
e-mail:sales@safdrives.com

(Replies given within 24 hours)

Opal Series SS6



APPLICATIONS

- Reduce peak power consumption during motor start up
- Apply torque slowly to any driven system thereby reducing torque shock
- Eliminate belt squeal to prolong belt and sheave life
- Dual starting modes allow the Opal to match with any AC starter application
 - Constant current recommended for light loads or where power supply is limited
 - Current ramp recommended for high inertia and heavy load applications

OPAL SETUP

- Ensure that all electrical connections have been completed.
- Match motor current with Opal rotary switch.
- Select starting mode, by a link. (constant current or current ramp)
- Set initial torque & ramp rate pots to 50%.
- Press start button to start the motor.



OPAL SPECIFICATIONS

Power: 3Ø, 200-600 volts, 50/60 HZ
Enclosure: NEMA 1
Ambient: 40°C
Altitude: 1000m
Overloads: 500% 30 seconds, 115% continuous
Phase Rotation: Insensitive
Control Voltage: 115 volt, 50/60 HZ

MODEL RATINGS

MODEL	HORSE POWER		
	230V	460V	575V
SS6			
15	5	10	15
30	10	25	30
50	20	40	50
80	30	60	75
125	50	100	125
200	75	150	200
360	150	300	350
500	200	400	500
600*	250	500	600
800*	300	600	800
1000*	400	800	1000

* Items available with CSA special inspection only



CONNECTION

