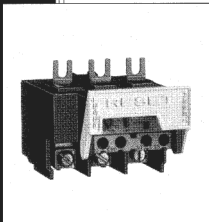




# HOT TOPICS

The  
**Intelligent**  
Power Solution

**NEW****BULLETIN 592****SMP™ Solid State Overload Relay**

Size 1 SMP-1

**DESCRIPTION**

The Bulletin 592 family of Smart Motor Protectors (SMP™) are designed for use as separately mounted devices and as integral components of Bulletin 500 Line Starters. The SMP overload relay family of products includes three distinct product offerings that provide basic to advanced motor protective functions. The combination of long electrical and mechanical life, maintainability, and flexibility of the Bulletin 500 Line Starters, in conjunction with the features and performance of the SMP overload relay, can be matched to virtually any application.

**PROTECTIVE FUNCTIONS**

	SMP-1™	SMP-2™	SMP-3™
Thermal Overload	●	●	●
Phase Loss (Trip in 2 sec. or less)	●	●	●
Ground Fault <sup>1</sup>		●	●
Jam <sup>1</sup> (Instantaneous locked rotor condition)		●	●
Communications via Remote I/O and DeviceNet			●

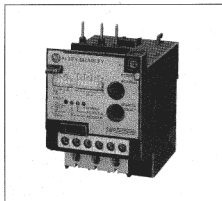
● = Standard Function

<sup>1</sup> This protective function can be disabled in applications where this protection is not required.**FEATURES**

	SMP-1	SMP-2	SMP-3
Wide Current Adjustment Range	3:2:1	3:2:1	5:1
Trip Class	10, 20 or 30	Selectable 10, 15, 20 or 30	Selectable 10, 15, 20 or 30
Reset Mode	Manual or Manual/Auto	Manual/ Automatic	Manual/ Automatic
Auxiliary Contacts	Isolated 1 N.O. & 1 N.C.	Isolated 1 N.O. & 1 N.C.	2 N.O. Triacs and 1 N.C. Hard Contact
Remote Reset	Optional Accessory	Optional Accessory	●
Self-Powered	●	●	
Low Energy Consumption	●	●	●
Visual Trip Indication	●	●	● (LED)
Digital Current Setting			●
Type 2 Coordination at up to 100 kA Fault Current with Bulletin 500 Contactors	●	●	●

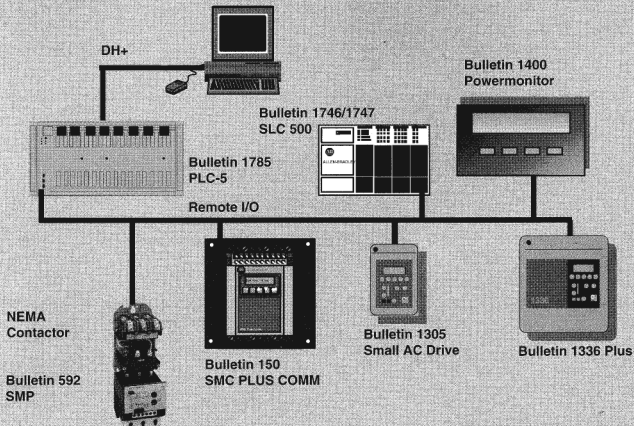
● = Standard Feature

SMP and SMC are trademarks of the Allen-Bradley Company, Inc.



Size 1 SMP-3

## COMMUNICATIONS



The SMP-3 has communication capability, which is particularly useful in process applications where the status of the process must be monitored. Information that can be communicated via the network or a Human Interface Module (HIM) includes:

- Average motor current
- Percent thermal capacity of the overload relay
- Percent phase unbalance
- Overload relay current setting
- Cause of overload relay trip

Additionally, communication provides starter control functions, including: start, stop, and reset. The SMP-3 shares common communication devices with the Allen-Bradley Bulletin 1336 and 1305 drives, and the SMC PLUS COMM™ controller with communications.

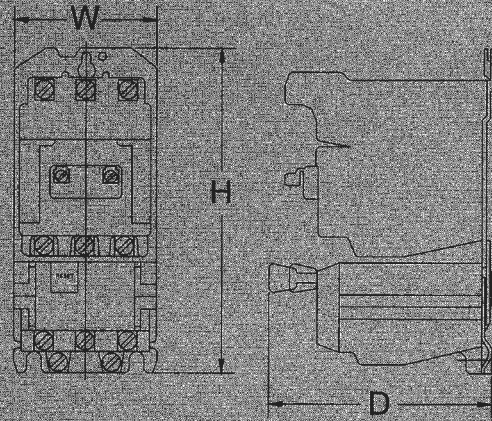
### GENERAL SPECIFICATIONS:

- Separately mounted overload relays, current ratings up to 630A at 600VAC, 50/60 Hz
- Open type assembled starters: Bulletin 505, 509 and 520 Sizes 00 to 6
- Ambient temperature compensated: -4°F to 113°F (20°C to 45°C)
- Repeat tripping accuracy:  $\pm 2\%$

### STANDARDS COMPLIANCE/APPROVALS:

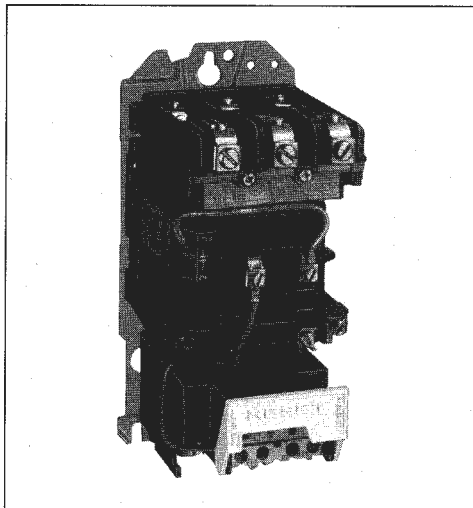
- UL listed and CSA certified

## APPROXIMATE DIMENSIONS

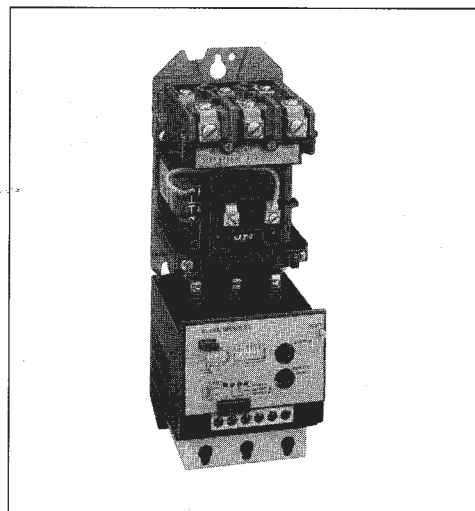


Starter Size	SMP Version	Height (H)	Width (W)	Depth (D)
00	SMP-1	4 (102)	4-11/16 (118)	3-9/16 (90.7)
	SMP-2	4-11/16 (118.3)	2-3/16 (55)	3-9/16 (90.7)
	SMP-3	6-1/2 (165.8)	2-3/4 (70)	4-3/4 (120.7)
0 & 1	SMP-1 & SMP-2	7-5/8 (193.3)	3-9/16 (90.4)	4-1/2 (114.1)
	SMP-3	9-13/16 (248.3)	3-9/16 (90.4)	4-13/16 (121.4)
2	SMP-1 & SMP-2	9-3/16 (232.6)	3-15/16 (100)	4-1/2 (113.8)
	SMP-3	10-13/16 (273.6)	3-15/16 (100)	4-13/16 (121.1)
3	SMP-1 & SMP-2	12-7/16 (315.4)	6-1/8 (155.5)	6 (152.1)
	SMP-3	14-1/16 (356.5)	6-1/8 (155.5)	6-5/8 (167.5)
4	SMP-1 & SMP-2	14-3/16 (359.4)	7 (177.8)	7-13/16 (198)
	SMP-3	15-5/8 (397)	7 (177.8)	7-13/16 (198)

Dimensions in inches (millimeters). Dimensions are not intended for manufacturing purpose.



Size 1 Starter with SMP-1



Size 1 Starter with SMP-3



Allen-Bradley, a Rockwell Automation Business, has been helping its customers improve productivity and quality for more than 90 years. We design, manufacture and support a broad range of automation products worldwide. They include logic processors, power and motion control devices, man-machine interfaces, sensors and a variety of software. Rockwell is one of the world's leading technology companies.

### Worldwide representation.



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