

# Molded Case Circuit Breakers

## Industrial Circuit Breakers

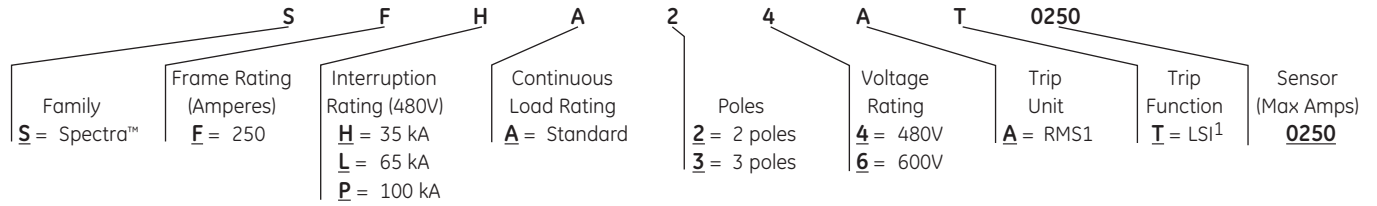
70-250A Circuit Breakers

Electronic Trip

Spectra™ RMS

SF250 Line Circuit Breakers

### Product Number Structure



<sup>1</sup>Adjustable Instantaneous with Tracking Short Time (Long Time established via Interchangeable Rating Plugs).

Note: This information is provided for interpreting product numbers (it should not be used to build product numbers).

### SF250 Line, Suitable for Reverse Feed, UL File E-11592, CSA LR 40350

SFH; 2-Pole, UL/CSA: 250A, 480 Vac Max., IEC 947-2: 250A, 415 Vac Max.

Rating Plug				Frame		Terminal Lugs for Front Connection (Cu/Al)	
Ampere Rating	Adjustable Instantaneous Trip Ampere Range		Product Number	UL 489 IC @480 Vac		Product Number	Wire Range
	Low	High		Current Sensor	Product Number		
70	205	700	SRPF250A70	250	SFHA24AT0250	TCAL29	8-350 Cu 8-350 Al
80	235	800	SRPF250A80				
90	265	900	SRPF250A90				
100	295	1000	SRPF250A100				
110	325	1100	SRPF250A110				
125	370	1250	SRPF250A125				
150	440	1500	SRPF250A150				
175	515	1750	SRPF250A175				
200	590	2000	SRPF250A200				
225	665	2250	SRPF250A225				
250	736	2500	SRPF250A250				

### SF250 Line, Suitable for Reverse Feed, UL File E-11592, CSA LR 40350

SFL, SFP<sup>2</sup>; 2-Pole, UL/CSA: 250A, 480 Vac Max., IEC 947-2: 250A, 415 Vac Max.

Rating Plug				Frame		Terminal Lugs for Front Connection (Cu/Al)		
Ampere Rating	Adjustable Instantaneous Trip Ampere Range		Product Number	UL 489 IC @480 Vac		Product Number	Wire Range	
	Low	High		Current Sensor	Product Number			
70	205	700	SRPF250A70	250	SFLA24AT0250	SFLA24AT0250	TCAL29	8-350 Cu 8-350 Al
80	235	800	SRPF250A80					
90	265	900	SRPF250A90					
100	295	1000	SRPF250A100					
110	325	1100	SRPF250A110					
125	370	1250	SRPF250A125					
150	440	1500	SRPF250A150					
175	515	1750	SRPF250A175					
200	590	2000	SRPF250A200					
225	665	2250	SRPF250A225					
250	736	2500	SRPF250A250					

<sup>2</sup>SFL, SFP UL current limiting.

Note: All Spectra™ breakers UL listed as HACR type.

All Spectra™ breakers marked CE.



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## Industrial Circuit Breakers

# Section 6

70-250A Circuit Breakers

Electronic Trip

Spectra™ RMS

SF250 Line Circuit Breakers

SF250 Line, Suitable for Reverse Feed, UL File E-11592, CSA LR 40350

SFH; 3-Pole, UL/CSA: 250A, 600 Vac Max., IEC 947-2: 250A, 690 Vac Max.

Rating Plug				Frame		Terminal Lugs for Front Connection (Cu/Al)		
Ampere Rating	Adjustable Instantaneous Trip Ampere Range		Product Number	Current Sensor	UL 489 IC @480 Vac		Product Number	Wire Range
	Low	High			35kA			
70	205	700	SRPF250A70	250	SFHA36AT0250		TCAL29	8-350 Cu 8-350 Al
80	235	800	SRPF250A80					
90	265	900	SRPF250A90					
100	295	1000	SRPF250A100					
110	325	1100	SRPF250A110					
125	370	1250	SRPF250A125					
150	440	1500	SRPF250A150					
175	515	1750	SRPF250A175					
200	590	2000	SRPF250A200					
225	665	2250	SRPF250A225					
250	736	2500	SRPF250A250					

SF250 Line, Suitable for Reverse Feed, UL File E-11592, CSA LR 40350

SFL, SFP<sup>1</sup>; 3-Pole, UL/CSA: 250A, 600 Vac Max., IEC 947-2: 250A, 690 Vac Max.

Rating Plug				Frame			Terminal Lugs for Front Connection (Cu/Al)	
Ampere Rating	Adjustable Instantaneous Trip Ampere Range		Product Number	Current Sensor	UL 489 IC @480 Vac	UL 489 IC @480 Vac	Product Number	Wire Range
	Low	High			65kA	100kA		
70	205	700	SRPF250A70	250	SFLA36AT0250      SFPA36AT0250		TCAL29	8-350 Cu 8-350 Al
80	235	800	SRPF250A80					
90	265	900	SRPF250A90					
100	295	1000	SRPF250A100					
110	325	1100	SRPF250A110					
125	370	1250	SRPF250A125					
150	440	1500	SRPF250A150					
175	515	1750	SRPF250A175					
200	590	2000	SRPF250A200					
225	665	2250	SRPF250A225					
250	736	2500	SRPF250A250					

<sup>1</sup>SFL, SFP UL current limiting.

Note: All Spectra™ breakers UL listed as HACR type.

All Spectra™ breakers marked CE.

### SF250 Reference Publications

Plug-in Mounting Base	GEH-4610
STDA Flange Handle	GEH-5314
Rating Plug	GEH-5549
Shunt Trip and Undervoltage Release	GEH-5551
Spectra™ F-Frame Installation Instruction	GEH-5591
Auxiliary Switch and Bell Alarm	GEH-5593
TDR Operating Mechanism	GEH-5609
TDM Operating Mechanism	GEH-5611
Motor Operator	GEH-5613
Mechanical Interlock	GEH-5615
Spectra™ RMS Molded Case Circuit Breaker	
Accessories - Mounting Hardware Kits	GEH-5659
STDA Operating Mechanism	GEH-5684
Spectra™ RMS Molded Case Circuit Breaker	
Accessories - Operator Adapter Kits	GEH-5688
Spectra™ RMS Molded Case Circuit Breaker	
Accessories - Lugs for SF250	GEH-5882
Spectra™ RMS Molded Case Circuit Breaker	
Accessories - Operator Adapter Kits	GEH-5688
Cable Operator Mechanism	GEH-6290
Lug	GEJ-3045
Padlocking Device - Standard	GEJ-3056
Back Connected Studs	GEJ-3635
SF250 Outline Drawing	168D1103SH1
Spectra™ RMS Circuit Breakers in Combination with Cooper Bussman Distribution Block	DET-781



# Molded Case Circuit Breakers Motor Circuit Protectors

3-250A

Mag-Break Motor Circuit Protectors

Current Limiting, UL Component Recognized<sup>1</sup>

### Features

- Suitable for Reverse Feed
- UL Recognized File E-11592
- CSA Certified LR 40350
- IEC 947-2 690 Vac Max.
  - SE 150           160 Ampere Max.
  - SF250           250 Ampere Max.
  - SG600           630 Ampere Max.
  - SK1200          1250 Ampere Max.
- UL Current Limiting

### High Interrupting Capacity Spectra™ RMS Motor Circuit Protectors—SE150 Line 3-Pole

Rating Plug				Frame			Terminal Lugs for Front Connection (Cu/Al)	
Ampere Rating	Adjustable Instantaneous Trip Ampere Range		Product Number	Current Sensor	65kAIC @480 Vac	100kAIC @480 Vac	Product Number	Wire Range
	Low	High			Product Number	Product Number		
3	11	39	SRPE7A3	7	SELA36AI0007	SEPA36AI0007	TCAL18	14-3/0 Cu
7	22	90	SRPE7A7					
15	43	182	SRPE30A15	30	SELA36AI0030	SEPA36AI0030	TCAL18	
20	58	254	SRPE30A20					
25	73	332	SRPE30A25					
30	87	415	SRPE30A30					
40	118	501	SRPE60A40					
50	148	637	SRPE60A50	60	SELA36AI0060	SEPA36AI0060	TCAL18	
60	178	777	SRPE60A60					
70	206	863	SRPE100A70					
80	236	999	SRPE100A80	100	SELA36AI0100	SEPA36AI0100	TCAL18	
90	267	1138	SRPE100A90					
100	297	1280	SRPE100A100					
110	328	1426	SRPE150A110					
125	374	1640	SRPE150A125	150	SELA36AI0150	SEPA36AI0150	TCAL18	
150	450	1991	SRPE150A150					

### SE150 Add-on 3-Pole Limiters

Maximum Ampere Rating	Product Number	kAIC @600 Vac	Use With Breaker/MCP Frame
150	SAXSEL36150	65	SEL
150	SAXSEP36150	100	SEP

### High Interrupting Capacity Motor Circuit Protectors—SF250 Line 3-Pole

Rating Plug				Frame			Terminal Lugs for Front Connection (Cu/Al)	
Ampere Rating	Adjustable Instantaneous Trip Ampere Range		Product Number	Current Sensor	65kAIC @480 Vac	100kAIC @480 Vac	Product Number	Wire Range
	Low	High			Product Number	Product Number		
70	205	700	SRPF250A70	250	SFLA36AI0250	SFPA36AI0250	TCAL29	8-350 Cu 8-350 Al
90	265	900	SRPF250A90					
100	295	1000	SRPF250A100					
110	325	1100	SRPF250A110					
125	370	1250	SRPF250A125					
150	440	1500	SRPF250A150					
175	515	1750	SRPF250A175					
200	590	2000	SRPF250A200					
225	665	2250	SRPF250A225					
250	736	2500	SRPF250A250					

<sup>1</sup>Per UL 489, interruption ratings are not printed on the product label (interruption ratings are established based on a tested combination of the motor circuit protector and a properly sized overload relay and contactor).

