

Molded Case Circuit Breakers Industrial Circuit Breakers

15-150A Circuit Breakers
Electronic Trip
Spectra® RMS
SE150 Line Circuit Breakers

SE150 Line, Suitable for Reverse Feed, UL File E-11592, CSA LR 40350

SED, SEH; 3-Pole, UL/CSA: 150A, 600 Vac Max., IEC 947-2: 160A, 690 Vac Max.

Rating Plug					Frame					Terminal Lugs for Front Connection (Cu/Al)			
Ampere Rating	Adj. Inst. Trip Range Amps		Product Number	List Price GO-135S	Current Sensor	UL 489 IC @480 Vac		UL 489 IC @480 Vac		Product Number	List Price GO-135S	Wire Range	
	Low	High				18kA	25kA						
15	43	182	SRPE30A15	\$106.00	30	SEDA36AT0030	\$382.00	SEHA36AT0030	\$632.00	TCAL18	\$3.00	12-3/0 Cu	
20	58	254	SRPE30A20	\$106.00									
25	73	332	SRPE30A25	\$106.00									
30	87	415	SRPE30A30	\$106.00									
40	118	501	SRPE60A40	\$106.00									
50	148	637	SRPE60A50	\$106.00	60	SEDA36AT0060	\$382.00	SEHA36AT0060	\$632.00			12-3/0 Al	
60	178	777	SRPE60A60	\$106.00									
70	206	863	SRPE100A70	\$106.00	100	SEDA36AT0100	\$492.00	SEHA36AT0100	\$734.00				
80	236	999	SRPE100A80	\$106.00									
90	267	1138	SRPE100A90	\$106.00									
100	297	1280	SRPE100A100	\$106.00	150	SEDA36AT0150	\$1253.00	SEHA36AT0150	\$1815.00				
110	328	1426	SRPE150A110	\$106.00									
125	374	1640	SRPE150A125	\$106.00									
150	450	1991	SRPE150A150	\$106.00									

SE150 Line, Suitable for Reverse Feed, UL File E-11592, CSA LR 40350

SEL, SEP¹; 3-Pole, UL/CSA: 150A, 600 Vac Max., IEC 947-2: 160A, 690 Vac Max.

Rating Plug					Frame					Terminal Lugs for Front Connection (Cu/Al)			
Ampere Rating	Adj. Inst. Trip Range Amps		Product Number	List Price GO-135S	Current Sensor	UL 489 IC @480 Vac		UL 489 IC @480 Vac		Product Number	List Price GO-135S	Wire Range	
	Low	High				65kA	100kA						
15	43	182	SRPE30A15	\$106.00	30	SELA36AT0030	\$753.00	SEPA36AT0030	\$1189.00	TCAL18	\$3.00	12-3/0 Cu	
20	58	254	SRPE30A20	\$106.00									
25	73	332	SRPE30A25	\$106.00									
30	87	415	SRPE30A30	\$106.00									
40	118	501	SRPE60A40	\$106.00									
50	148	637	SRPE60A50	\$106.00	60	SELA36AT0060	\$753.00	SEPA36AT0060	\$1189.00			12-3/0 Al	
60	178	777	SRPE60A60	\$106.00									
70	206	863	SRPE100A70	\$106.00	100	SELA36AT0100	\$895.00	SEPA36AT0100	\$1482.00				
80	236	999	SRPE100A80	\$106.00									
90	267	1138	SRPE100A90	\$106.00									
100	297	1280	SRPE100A100	\$106.00	150	SELA36AT0150	\$2165.00	SEPA36AT0150	\$3477.00				
110	328	1426	SRPE150A110	\$106.00									
125	374	1640	SRPE150A125	\$106.00									
150	450	1991	SRPE150A150	\$106.00									

¹SEL, SEP UL current limiting.

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

All Spectra® breakers marked CE.

SE 150 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® E-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
STDA Operating Mechanism	GEH-5684
Cable Operator Mechanism	GEH-6290
Lug	GEJ-3051
Padlocking Device - Standard	GEJ-3056
Back Connected Studs	GEJ-3609
SE150 Outline Drawing	168D1109SH1



Publications and Reference: See Section 22 for a complete list of additional product-related publications

Tri-Break® Line

- Integrally Fused Thermal Magnetic Circuit Breakers
- Integrally Fused Magnetic Circuit Breakers
- Integrally Fused Molded Case Switches

These breakers are available in three types. Type TB1 (15-100 amperes) product numbers include frame, trip, line and load lugs, and current limiters all factory assembled. TB6 (300 to 600 amperes) and TB8 (600 to 800 amperes) include frame, trip and limiters, factory assembled, but do not include line or load lugs. If line and load lugs are required, order separately. Unless otherwise noted, TB1, TB6, and TB8 breaker components are UL listed in File E-42263. Fused molded case switches are UL listed in File E-57546.

Mag-Break Line

- Magnetic only circuit breakers (motor circuit protectors)

These breakers are available only with noninterchangeable adjustable magnetic trip, in frame Types E, F, J, K, and Tri-Break®. All breakers are shipped factory assembled, complete with Cu/Al line and load lugs.

All magnetic only circuit breakers and limiters are UL Component Recognized in Files E-11592 and E-66390, respectively, unless otherwise noted.

Spectra® RMS

- Circuit Breakers

Determine the required breaker frame, IC rating, and load requirements. Select frame, trip unit (rating plug), and lug, if required, product numbers from the tables on pages 3-46 to 3-54. For Spectra® breakers with MicroVersaTrip® Plus or MicroVersaTrip® PM Trip Units refer to pages 3-57 through 3-65. Select field-mounted internal accessory product numbers, if required, on pages 3-70 and 3-71. Select field-mounted external accessory product numbers, if required, on pages 3-97 through 3-107 and pages 3-66 to 3-69 for Spectra® breakers with MicroVersaTrip® Plus or MicroVersaTrip® PM Trip Units. Order as separate items.

- Mag-Break Motor Circuit Protectors

Determine the required frame and ampere requirements. Select frame, trip unit (rating plug), and lug, if required, product numbers from the table on pages 3-73 through 3-75. Select accessories as noted above for circuit breakers. The same accessories are used with both circuit breakers and motor circuit protectors. Order as separate items.

- Molded Case Switches

Determine the required frame and ampere requirements. Select frame and lug, if required, product numbers from the table on page 3-72. Rating plugs are not used. Select accessories as noted above for circuit breakers. Internal accessories do not require dummy trips. The same accessories are used with both circuit breakers and molded case switches. Order as separate items.

Unless otherwise noted, all circuit breakers are UL listed in File E-11592. Molded case switches are UL listed in File E-57546. Field-Installable Internal Accessories are UL listed in File E-57253. Distribution Cable Accessories for MicroVersaTrip® Plus Trip Units and MicroVersaTrip® PM Trip Units are UL listed in File E-57253.

Accessories

Order accessories from the appropriate table:

- Thermal Magnetic Circuit Breakers, Magnetic Circuit Breakers, and Molded Case Switches¹—pages 3-39 to 3-45 and 3-97 to 3-107.
- Spectra® RMS Breakers—pages 3-70 to 3-71 and 3-97 to 3-107.
- Spectra® RMS Breakers with MicroVersaTrip® Plus Trip Units or MicroVersaTrip® PM Trip Units—pages 3-66 to 3-71, and 3-96 to 3-107.

¹Installation of accessories in molded case switches requires dummy trip; see page 3-45 for information. Dummy trip not required for Tri-Break® or Q-Line molded case switches.

Molded Case Circuit Breaker and Switch Terminal Configuration Code

Order standard Cu/Al lugs by using suffix codes presented. Order lugs separately if special lugs are required. For optional lugs, see pages 3-101 and 3-102.

Breaker/Switch Type	Suffix				
	Blank	WL	XL	X2	LL
TQD/TJD	Load Lugs Only	Line and Load Lugs	—	Line Lugs Only	No Lugs
Molded Case Breakers, Thermal Magnetic	Load Lugs Only	Line and Load Lugs	—	Load Lugs Only	No Lugs
Molded Case Switch	Line and Load Lugs	—	No Lugs	Line Lugs Only	Load Lugs Only
Spectra RMS™ Breakers	No Lugs			Order Lugs Separately	
Mine Duty™ Breakers	No Lugs			Order Lugs Separately	
Mag-Break® Breakers	Line and Load Lugs	—	—	—	—



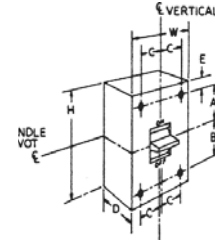
Molded Case Circuit Breakers Industrial Circuit Breakers

Quick Reference Guide

15-1200A Circuit Breakers

Electric Trip Spectra® RMS Breakers

Ratings do not apply to molded case switches. The interruption ratings and voltages shown in the table are maximum ratings. A circuit breaker of the type given in the left-hand column may be applied at the given circuit voltage in any electrical distribution system where the available fault current at the load terminals of the breaker does not exceed the value in the table. That circuit breaker type may also be applied at intermediate values of circuit voltage provided the available fault current at the load terminals of the breaker does not exceed the value in the table for the higher value of voltage.



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Spectra® RMS Circuit Breakers UL/CSA Ratings

Solid-State with Interchangeable Trip Unit (Rating Plug)

Circuit Breaker Type	Ampere Rating	No. Poles	Maximum Vac	UL Listed Interrupting Rating—kA			Dimensions Inches (mm)							Approx. Ship Wt./Std. Pack							
				240 Vac	480 Vac	600 Vac	H	W	D	A	B	C	E								
SE150 Current Limiting (UL File No. E-11592; CSA LR 40350)¹																					
SED ²	15-150	2	480	18	18	—	6.31 (160)	4.12 (105)	3.38 (86)	2.41 (61)	2.47 (63)	.69 (18)	.72 (18)	5.65 lb/1							
		3	600												65	25	—				
SEH ²		2	480	65	25	—	6.31 (160)	4.12 (105)	3.38 (86)	2.41 (61)	2.47 (63)	.69 (18)	.72 (18)								
	3	600	100												65	—					
SEL	15-150	2		480	100	65	—	6.31 (160)	4.12 (105)	3.38 (86)	2.41 (61)	2.47 (63)	.69 (18)				.72 (18)				
		3	600	200											100	—					
SEP	15-150	2	480		200	100	—	6.31 (160)	4.12 (105)	3.38 (86)	2.41 (61)	2.47 (63)	.69 (18)				.72 (18)				
		3	600	25											—	—					
SF-250 Current Limiting (UL File No. E-11592; CSA LR 40350)¹																					
SFH ²	70-250	2	480	65	35	—	10.12 (257)	4.12 (105)	3.81 (97)	3.87 (98)	3.87 (98)	.69 (18)	1.19 (30)		9.15 lb/1						
		3	600											100		65	—				
SFL	70-250	2	480	100	65	—	10.12 (257)	4.12 (105)	3.81 (97)	3.87 (98)	3.87 (98)	.69 (18)	1.19 (30)								
			3											600		200	100	—			
SFP	70-250	2	480	200	100	—	10.12 (257)	4.12 (105)	3.81 (97)	3.87 (98)	3.87 (98)	.69 (18)	1.19 (30)								
			3											600		25	—	—			
SG600 Current Limiting (UL File No. E-11592; CSA LR 40350)^{1, 3}																					
SGH1 ^{2,4}	60-150	3	600	65	35	25	10.09 (256) 5	5.50 (140)	3.81 (97)	4.45 (113)	3.30 (84)	.91 (23)	1.18 (30) 5	15.85 lb/1							
SGD ²	125-400	2	240	65	—	—															
		3													65	35	25	—			
SGH4 ²		2	600	65	35	25													10.09 (256) 5	5.50 (140)	3.81 (97)
		3	600												65	35	25				
SGH6 ²	250-600	2	600	65	35	25												10.09 (256) 5	5.50 (140)	3.81 (97)	4.45 (113)
			3												600	100	65				
SGL1 ⁴	60-150	3	600	100	65	65									10.09 (256) 5			5.50 (140)	3.81 (97)	4.45 (113)	3.30 (84)
SGP1 ⁴			3													600	200				
SGL4	125-400	2	600	100	65	65									10.09 (256) 5	5.50 (140)		3.81 (97)	4.45 (113)	3.30 (84)	.91 (23)
			3														600				
SGP4	125-400	2	600	200	100	65									10.09 (256) 5	5.50 (140)	3.81 (97)	4.45 (113)	3.30 (84)	.91 (23)	1.18 (30) 5
			3																		
SGL6	250-600	2	600	100	65	65									10.09 (256) 5	5.50 (140)	3.81 (97)	4.45 (113)	3.30 (84)	.91 (23)	1.18 (30) 5
			3																		
SGP6	250-600	2	600	200	100	65									10.09 (256) 5	5.50 (140)	3.81 (97)	4.45 (113)	3.30 (84)	.91 (23)	1.18 (30) 5
			3																		
SK1200 (UL File No. E-11592; CSA LR 40350)^{1, 3}																					
SKH8	300-800	2	600	65	50	25	15.50 (394) 6	8.25 (210)	5.50 (140)	8.56 (217)	5.69 (145)	1.38 (35)	.62 (16) 6	47.6 lb/1							
		3													100	65	42				
SKL8		2	600	100	65	42												15.50 (394) 6	8.25 (210)	5.50 (140)	8.56 (217)
		3	600												200	100	65				
SKP8	300-800	2	600	200	100	65												15.50 (394) 6	8.25 (210)	5.50 (140)	8.56 (217)
			3												600	600	65				
SKH12	600-1200	2	600	65	50	25									15.50 (394) 6			8.25 (210)	5.50 (140)	8.56 (217)	5.69 (145)
			3													600	100				
SKL12	600-1200	2	600	100	65	42									15.50 (394) 6	8.25 (210)		5.50 (140)	8.56 (217)	5.69 (145)	1.38 (35)
			3														600				
SKP12	600-1200	2	600	200	100	65	15.50 (394) 6	8.25 (210)	5.50 (140)	8.56 (217)	5.69 (145)	1.38 (35)	.62 (16) 6								
			3											600	25	—	—				

¹ UL listed as HACR (heating, air conditioning and refrigeration).

² Not current-limiting circuit breaker.

³ Includes MicroVersaTrip Plus™ Trip Units and MicroVersaTrip PM™ Trip Units.

⁴ MicroVersaTrip Plus™ Trip Units and MicroVersaTrip PM™ Trip Units only.

⁵ Add 1.76 inches (45 mm) to each end with lugs and lug cover installed.

⁶ Add 4.00 inches (101 mm) to upper end for SKP (100 KAIC-480V) lug cover.



Publications and Reference: See Section 22 for a complete list of additional product-related publications

Molded Case Circuit Breakers Industrial Circuit Breakers

Section 3

Quick Reference Guide

15-1200A Circuit Breakers

Electric Trip Spectra® RMS Breakers

Ratings do not apply to molded case switches

IEC/JIS Ratings

Solid-State with Interchangeable Trip Unit (Rating Plug)

Circuit Breaker Type	Ampere Rating	No. Poles	IEC 947-2 Interruption Capacity — kA								Japanese Industry Standard Interruption Capacity kA			
			220-240 Vac		380-415 Vac		500 Vac		690 Vac		Vac			
			I _{cu}	I _{cs}	I _{cu}	I _{cs}	I _{cu}	I _{cs}	I _{cu}	I _{cs}	220-240	380-415	500	690
SE150 Current Limiting, 15-32A														
SED	15-32	2	18	9	10	5	—	—	—	—	18	10	—	—
		3	—	—	—	—	—	4	4	—	—	4	—	—
SEH	15-32	2	65	33	15	10	—	—	—	—	65	15	—	—
		3	—	—	—	—	—	6	6	—	—	6	—	—
SEL	15-32	2	100	50	20	15	—	—	—	—	100	20	—	—
		3	—	—	—	—	—	8	8	3	3	—	8	3
SEP	15-32	2	200	100	20	20	—	—	—	—	200	20	—	—
		3	—	—	—	—	—	10	10	5	5	—	10	5
SE150 Current Limiting, 40-160A														
SED	40-160	2	18	9	14	7	—	—	—	—	18	14	—	—
		3	—	—	—	—	—	14	7	—	—	14	—	—
SEH	40-160	2	65	33	35	17	—	—	—	—	65	25	—	—
		3	—	—	—	—	—	25	12	—	—	18	—	—
SEL	40-160	2	100	50	65	33	—	—	—	—	100	65	—	—
		3	—	—	—	—	—	40	20	5	5	—	25	5
SEP	40-160	2	200	100	100	50	—	—	—	—	200	100	—	—
		3	—	—	—	—	—	50	25	10	5	—	65	10
SF250 Current Limiting														
SFH	70-250	2	65	33	35	17	—	—	—	—	65	25	—	—
		3	—	—	—	—	—	25	12	—	—	18	—	—
SFL	70-250	2	100	50	65	33	—	—	—	—	100	65	—	—
		3	—	—	—	—	—	40	20	14	7	—	25	14
SFP	70-250	2	200	100	100	50	—	—	—	—	200	100	—	—
		3	—	—	—	—	—	65	33	18	9	—	65	18
SG600 Current Limiting														
SGH1 ¹	60-150	3	65	33	25	13	18	9	—	—	65	25	18	—
SGL1 ¹			100	50	65	33	35	18	14	7	100	65	35	22
SGP1 ¹			200	100	100	50	50	25	18	9	200	100	65	35
SGH4	125-400	2	65	33	25	13	—	—	—	—	65	25	—	—
		3	—	—	—	—	—	18	9	—	—	18	—	
SGL4		2	100	50	65	33	—	—	—	—	100	65	—	—
	3	—	—	—	—	—	—	—	—	—	—	35	22	
SGP4	2	200	100	100	50	—	—	—	—	200	100	—	—	
	3	—	—	—	—	—	—	—	—	—	—	65	35	
SGH6	250-600	2	65	33	25	13	—	—	—	—	65	25	—	—
		3	—	—	—	—	—	18	9	—	—	18	—	
SGL6		2	100	50	65	33	—	—	—	—	100	65	—	—
	3	—	—	—	—	—	—	—	—	—	—	35	22	
SGP6	2	200	100	100	50	—	—	—	—	200	100	—	—	
	3	—	—	—	—	—	—	—	—	—	—	65	35	
SK1200														
SKH8	300-800	2	65	16	50	13	25	13	—	—	65	50	25	—
		3	—	—	—	—	—	—	—	—	—	—	—	—
SKL8		2	100	25	65	16	42	21	14	14	100	65	42	14
	3	—	—	—	—	—	—	—	—	—	—	—	—	
SKP8	2	140	35	85	25	50	25	18	18	140	85	50	18	
	3	—	—	—	—	—	—	—	—	—	—	—	—	
SKH12	600-1250	2	65	16	50	13	25	13	—	—	65	50	25	—
		3	—	—	—	—	—	—	—	—	—	—	—	—
SKL12		2	100	25	65	21	42	16	14	14	100	65	42	14
	3	—	—	—	—	—	—	—	—	—	—	—	—	
SKP12	2	140	35	70	25	50	25	18	18	140	85	50	18	
	3	—	—	—	—	—	—	—	—	—	—	—	—	

¹MicroVersaTrip Plus™ trip system only.



SE



SF



SG



SK

