



INDUSTRIAL
Electronic Supply, Inc.

SIRIUS Modular System



The perfect combination – for every application

Everything you need for switching, protecting, starting and monitoring with the highly flexible modular system

Overview + Features

IEC Product Offering

Easy Start
Efficient Communication
Great Protection

1 Motor Starter Protectors (MSPs)

- A modular product with a current range up to 100A consisting of just four frame sizes in Class 10 or 20 protection with UL type E or UL489 options, and available with or without auxiliary contacts. An infeed system and bus bar options are offered for reducing wiring expenses.

2 Contactors

- Complete line of AC or DC operating and switching versions up to 500 HP for direct, reversing or wye delta starters.
- Three or four pole versions, conventional, solid-state capacitor and vacuum contactors as well as coupling relays.
- NEMA labeled IEC contactors available in size zero to six.

3 Overload Relays

- Thermal Overloads of up to 100A in four frame sizes in class 10 or 20 protection trip on overload, single phase, phase unbalance and phase failure.
- Solid State Overloads of up to 820A in Class 5, 10, 20 or 30 protection, which also trip on ground fault.


Contact your IES team to choose your solution from our in-stock selection

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SIEMENS

Illustration	FLA Adjustment Range [A]	Single-Phase HP Ratings		Three-Phase HP Ratings ¹⁾				Instantaneous short circuit release [A]	UL short-circuit breaking capacity @ 480V [kA]	Size S00 ²⁾⁴⁾	Size S0 ²⁾⁴⁾
		115V	230V	200V	230V	460V	575V			Order Number	Order Number
	0.11-0.16	—	—	—	—	—	—	2.1	65	3RV2011-0AA●●	—
	0.14-0.2	—	—	—	—	—	—	2.6	65	3RV2011-0BA●●	—
	0.18-0.25	—	—	—	—	—	—	3.3	65	3RV2011-0CA●●	—
	0.22-0.32	—	—	—	—	—	—	4.2	65	3RV2011-0DA●●	—
	0.28-0.4	—	—	—	—	—	—	5.2	65	3RV2011-0EA●●	—
	0.35-0.5	—	—	—	—	—	—	6.5	65	3RV2011-0FA●●	—
	0.45-0.63	—	—	—	—	—	—	8.2	65	3RV2011-0GA●●	3RV2021-0GA●●
	0.55-0.8	—	—	—	—	—	—	10	65	3RV2011-0HA●●	3RV2021-0HA●●
	0.7-1	—	—	—	—	—	1/2	13	65	3RV2011-0JA●●	3RV2021-0JA●●
	0.9-1.25	—	—	—	—	1/2	1/2	16	65	3RV2011-0KA●●	3RV2021-0KA●●
	1.1-1.6	—	1/10	—	—	3/4	3/4	21	65	3RV2011-1AA●●	3RV2021-1AA●●
	1.4-2	—	1/8	—	—	3/4	1	26	65	3RV2011-1BA●●	3RV2021-1BA●●
	1.8-2.5	—	1/6	1/2	1/2	1	1 1/2	33	65	3RV2011-1CA●●	3RV2021-1CA●●
	2.2-3.2	1/10	1/4	1/2	3/4	1 1/2	2	42	65	3RV2011-1DA●●	3RV2021-1DA●●
	2.8-4	1/6	1/3	3/4	3/4	2	3	52	65	3RV2011-1EA●●	3RV2021-1EA●●
	3.5-5	1/6	1/2	1	1	3	3	65	65	3RV2011-1FA●●	3RV2021-1FA●●
	4.5-6.3	1/4	1/2	1	1 1/2	3	5	82	65	3RV2011-1GA●●	3RV2021-1GA●●
	5.5-8	1/3	1	2	2	5	5	104	65	3RV2011-1HA●●	3RV2021-1HA●●
	7-10	1/2	1 1/2	2	3	5	7 1/2	130	65	3RV2011-1JA●●	3RV2021-1JA●●
	9-12.5	1/2	2	3	3	7 1/2	10	163	65	3RV2011-1KA●●	3RV2021-1KA●●
11-16	1	2	3	5	10	—	208	65	3RV2011-4AA●●	3RV2021-4AA●●	
14-20	1 1/2	3	5	5	10	—	260	65	—	3RV2021-4BA●●	
17-22	1 1/2	3	5	7 1/2	15	—	286	65	—	3RV2021-4CA●●	
20-25	2	3	5	7 1/2	15	—	325	65	—	3RV2021-4DA●●	
23-28	2	5	7 1/2	10	20	—	364	50	—	3RV2021-4NA●●	
27-32	2	5	7 1/2	10	20	—	400	50	—	3RV2021-4EA●●	
30-36 ³⁾	3	5	10	10	25	—	432	12	—	3RV2021-4PA●●	
34-40 ³⁾	3	7 1/2	10	10	30	—	480	12	—	3RV2021-4FA●●	

Note: Select MSP by motor Full Load Amperes. Horsepower ratings are for reference only.

Screw terminals, no auxiliary: ●● = 10
 Screw Terminals, with 1NO/1NC Aux: ●● = 15
 Spring terminals, no auxiliary: ●● = 20
 Spring Terminals, with 1NO/1NC Aux: ●● = 25
 Ring Lug Terminals, no Auxiliary: ●● = 40

Illustration	FLA Adjustment Range [A]	Single Phase HP rating ¹⁾		3 Phase HP Rating ¹⁾				Inst. Short-Circuit Release [A]	UL AIC (480V) [kA] ⁶⁾	Trip Class 10	Trip Class 20
		115V	240V	200V	230V	460V	575V			Order Number ⁴⁾	Order Number ⁴⁾
	3RV203 Frame Size S2										
	9.5 - 14	1.5	3	5	5	10	15	208	65	3RV2031-4SA10	3RV2031-4SB10
	12 - 17	1.5	3	5	7.5	15	15	260	65	3RV2031-4TA10	3RV2031-4TB10
	14 - 20	1.5	3	7.5	7.5	15	20	260	65	3RV2031-4BA10	3RV2031-4BB10
	18 - 25	2	5	7.5	10	20	25	325	65	3RV2031-4DA10	3RV2031-4DB10
	22 - 32	3	5	10	10	25	30	416	65	3RV2031-4EA10	3RV2031-4EB10
	28 - 36	3	7.5	15	15	30	40	520	65	3RV2031-4PA10	3RV2031-4PB10
	32 - 40	3	7.5	15	15	30	40	585	65	3RV2031-4UA10	3RV2031-4UB10
	35 - 45	3	10	15	15	40	50	650	65	3RV2031-4VA10	3RV2031-4VB10
	42 - 52	5	10	15	20	40	50	741	65	3RV2031-4WA10	3RV2031-4WB10
	49 - 59	5	15	20	25	50	60	845	30	3RV2031-4XA10	3RV2031-4XB10
	54 - 65	5	15	20	25	50	60	845	30	3RV2031-4JA10	3RV2031-4JB10
	3RV204 Frame Size S3										
	28 - 40	3	7.5	15	15	30	40	520A	65	3RV2041-4FA10	3RV2042-4FB10
36 - 50	5	10	15	20	40	50	650A	65	3RV2041-4HA10	3RV2042-4HB10	
45 - 63	5	15	20	25	50	60	819A	65	3RV2041-4JA10	3RV2042-4JB10	
57 - 75	7.5	15	25	25	60	75	975A	65	3RV2041-4KA10	3RV2042-4KB10	
70 - 90	10	20	30	30	75	100 ³⁾	1170A	65	3RV2041-4LA10	3RV2042-4LB10	
80 - 100	10	25	40	40	75	100 ³⁾	1235A	65	3RV2041-4MA10	3RV2042-4MB10	

Selection and ordering data



3RT201-1A



3RT201, -2A...



3RT2028-1N...



3RT2025-2B...



3RT2035-1A...



3RT2045-1A...

Frame Size	Amp Ratings		Single-phase HP ratings			Three-phase HP ratings				Auxiliary contacts		Screw Terminals		Weight approx. kg
	AC3	AC1	115V	208V	230V	208V	230V	460V	575V	NO	NC	Order No.	Order No.	
3RT 3-pole contactors														
S00	6	18	0.25	0.5	0.75	1.5	2	3	5	1	0	3RT2015-1□●●1	0.24/0.29	
										0	1	3RT2015-1□●●2		
	9	22	0.33	1	1	2	3	5	7.5	1	0	3RT2016-1□●●1		
										0	1	3RT2016-1□●●2		
	12	22	0.5	1.5	2	3	3	7.5	10	1	0	3RT2017-1□●●1		
										0	1	3RT2017-1□●●2		
	16	22	1	2	2	3	5	10	10	1	0	3RT2018-1□●●1		
										0	1	3RT2018-1□●●2		
S0	9	40	1	1	1	2	3	5	7.5	1	1	3RT2023-1□●●0	0.42/0.60	
	12	40	1	2	2	3	3	7.5	10	1	1	3RT2024-1□●●0		
	17	40	1	2	3	5	5	10	15	1	1	3RT2025-1□●●0		
	25	40	2	3	3	7.5	7.5	15	20	1	1	3RT2026-1□●●0		
	32	50	2	5	5	10	10	20	25	1	1	3RT2027-1□●●0		
S2	38	50	3	5	5	10	10	25	25	1	1	3RT2028-1□●●0	0.99/1.121	
	40	60	3	5	7.5	10	15	30	40	1	1	3RT2035-1□●●0		
	50	70	3	7.5	10	15	15	40	50	1	1	3RT2036-1□●●0		
S3	65	80	5	10	10	20	20	50	50	1	1	3RT2037-1□●●0	1.8/2.8	
	80 ²⁾	90	5	10	15	20	25	50	60	1	1	3RT2038-1□●●0		
	80	125	7.5	10	15	25	30	60	60	1	1	3RT2045-1□●●0		
	95	130	10	10	20	30	30	75	75	1	1	3RT2046-1□●●0	1.8/2.8	
	110	130	10	10	20	30	40	75	100	1	1	3RT2047-1□●●0		

Size S2 only: Replace "B" with "K" for 24VDC coil only
 Size S0 and S2 only: UC Electronic with integrated varistor

□ AC Coil = A
 □ DC Coil = B
 □ UC Coil = N
 A
 B
 N

NEMA Size	Amp Ratings	Single-phase HP ratings		Three-phase HP ratings				Auxiliary contacts		Screw Terminals with AC coil		Screw Terminals with 24 VDC coil		Weight approx. kg
		115V	230V	208V	230V	460V	575V	NO	NC	Order No.	Order No.			
NEMA Labeled Contactors														
0	18	1	2	3	3	5	5	1	0	3RT2018-1A●●1-0UA0	3RT2018-1BB41-0UA0	0.28		
1	27	2	3	7.5	7.5	10	10	1	1	3RT2027-1A●●0-0UA0	3RT2027-1BB40-0UA0	0.42		
2	45	3	7.5	10	15	25	25	1	1	3RT2036-1A●●0-0UA0	3RT2036-1NB30-0UA0	0.986/1.121		
3	90	7.5	15	25	30	50	50	1	1	3RT2046-1A●●0-0UA0	3RT2046-1NB40-0UA0	1.8 / 2.8		

1) All terminals are spring loaded on frame sizes S00 & S0.
 Only the coil terminals are spring loaded on frame sizes S2 & S3.
 2) Max UL FLA = 65A at 460V

Note: Ring lug terminals are also available in size S00 & S0 contactors, except contactors with communication interface or UC coil. Change the 8th digit of the order number to a "4", e. g. 3RT2015-4AK61.

AC Coil Selection for 3RT201 through 3RT204							
●●Coil Code	C2 ²⁾	H2 ³⁾	K6	P6	U6	V6	T6
60 Hz	24 V	48 V	120 V	240 V	277 V	480 V	600 V
50 Hz	24 V	48 V	110 V	220 V	—	—	—

²⁾ Use Code B0 for 3RT201, S00
³⁾ Use Code H0 for 3RT201, S00

DC Coil Selection for 3RT201 & 3RT202 (for 3RT203 & 3RT204 see UC)							
●●Coil Code	A4 ⁴⁾	B4	W4	E4	F4	G4	M4
DC	12 V	24 V	48 V	60 V	110 V	125 V	220 V

⁴⁾ 3RT201 and 3RT202 only

UC Coil Selection for 3RT202				UC Coil Selection for 3RT203 & 3RT204			
●●Coil Code	B3	F3	P3 ⁴⁾	●●	B3	F3	P3 ⁵⁾
UC	21-28V	95-130V	200-280V		20-33V	83-155V	175-280V







⁵⁾ at upper limit = 1.1 x U_G

3RT contactors, 3-pole – Size S00 to S3 shown above, Size S6-S12 and NEMA size 4-6 also available

3RB20 solid-state overload relays and stand-alone installation²⁾³⁾, CLASS 10 or CLASS 20 for direct mounting¹⁾²⁾

Features and technical specifications:

- Overload protection, phase failure protection and unbalance protection
- Internal power supply
- Auxiliary contacts 1 NO + 1 NC
- Manual and automatic RESET
- Switch position indicator
- TEST function and self-monitoring

Size Contactor ⁴⁾	Set current value of the inverse-time delayed overload trip	Screw Terminal Order Number	Spring Loaded Terminal Order Number	Weight per PU approx.		
A						
Size S00¹⁾						
 3RB30 16-1RB0	S00	0.1 ... 0.4	3RB30 16-□RB0	3RB30 16-□RE0	0.172	
		0.32 ... 1.25	3RB30 16-□NB0	3RB30 16-□NE0	0.172	
		1 ... 4	3RB30 16-□PB0	3RB30 16-□PE0	0.172	
		3 ... 12	3RB30 16-□SB0	3RB30 16-□SE0	0.172	
		4 ... 16	3RB30 16-□TB0	3RB30 16-□TE0	0.172	
Size S0¹⁾						
 3RB30 26-1QB0	S0	0.1 ... 0.4	3RB30 26-□RB0	3RB30 26-□RE0	0.250	
		0.32 ... 1.25	3RB30 26-□NB0	3RB30 26-□NE0	0.250	
		1 ... 4	3RB30 26-□PB0	3RB30 26-□PE0	0.250	
		3 ... 12	3RB30 26-□SB0	3RB30 26-□SE0	0.250	
		6 ... 25	3RB30 26-□QB0	3RB30 26-□QE0	0.250	
	10 ... 40	3RB30 26-□VB0	3RB30 26-□VE0	0.250		
Size S2¹⁾³⁾⁵⁾						
 3RB30 36-1UB0	S2	12 ... 50	with busbar	3RB30 36-□UB0	3RB30 36-□UD0	0.360
			with pass through CT's	3RB30 36-□UW1	3RB30 36-□UX1	0.230
		20 ... 80	with busbar	3RB30 36-□WB0	3RB30 36-□WD0	0.360
			with pass through CT's	3RB30 36-□WW1	3RB30 36-□WX1	0.230
Size S3¹⁾³⁾⁵⁾						
 3RB30 46-1EB0	S3	12.5 ... 50	with busbar	3RB30 46-□UB0	3RB30 46-□UD0	0.560
		25 ... 100	with busbar	3RB30 46-□EB0	3RB30 46-□ED0	0.560
			with pass through CT's	3RB30 46-□EW1	3RB30 46-□EX1	0.450
Size S6²⁾⁵⁾						
 3RB20 56-1FW2	S6	50 ... 200	with busbar	3RB20 56-□FC2	3RB20 56-□FF2	1.030
			with pass through CT's	3RB20 56-□FW2	3RB20 56-□FX2	0.690
Size S10/S12²⁾						
 3RB20 66-1MC2	S10/S12 and size 14 (3TF68/3TF69)	55 ... 250	with busbar	3RB20 66-□GC2	3RB20 66-□GF2	1.820
		160 ... 630	with busbar	3RB20 66-□MC2	3RB20 66-□MF2	1.820
			2 Class 20	2 Class 20		
			1 Class 10	1 Class 10		

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