

Switching Devices: Contactors and Contactor Assemblies

2

Introduction

Overview



Size	S00	S0	S2
Type	3RT10 1	3RT10 2	3RT10 3

3RT10 contactors • 3RT12 and 3TF68/69 vacuum contactors

Type	3RT10 15	3RT10 16	3RT10 17	3RT10 23	3RT10 24	3RT10 25	3RT10 26	3RT10 34	3RT10 35	3RT10 36
AC/DC operation	(p. 2/52, 2/56)			(p. 2/53, 2/57)			(p. 2/54, 2/58)			
Type	-			-			-			

AC-3											
I_e /AC-3/400 V	A	7	9	12	9	12	17	25	32	40	50
400 V	kW	3	4	5.5	4	5.5	7.5	11	15	18.5	22
230 V	kW	2.2	3	3	3	3	4	5.5	7.5	11	15
500 V	kW	3.5	4.5	5.5	4.5	7.5	10	11	18.5	22	30
690 V	kW	4	5.5	5.5	5.5	7.5	11	11	18.5	22	22
1 000 V	kW	-	-	-	-	-	-	-	-	-	-

AC-4 (for $I_a = 6 \times I_e$)											
400 V	kW	3	4	4	4	5.5	7.5	7.5	15	18.5	22
400 V	kW	1.15	2	2	2	2.6	3.5	4.4	8.2	9.5	12.6
(200 000 operating cycles)											

AC-1 (40 °C, ≤ 690 V)												
I_e	3RT10/12	A	18	22	22	40	40	40	40	50	60	60

3RT14 AC-1 contactors

Type	-	-	-
I_e /AC-1/40 °C/ ≤ 690 V	A	-	-

Accessories for contactors

Auxiliary switch blocks	front lateral	3RH19 11	(p. 2/180)	3RH19 21	(p. 2/180)	3RH19 21	(p. 2/182)	3RT19 36-4EA2	(p. 3/52)
Terminal covers	-	-	-	-	-	-	-	-	-
Box terminal blocks	-	-	-	-	-	-	-	-	-
Surge suppressor	-	3RT19 16	(p. 2/186)	3RT19 26	(p. 2/186)	3RT19 26/36	(p. 2/186)	-	-

3RU11 and 3RB10/12 overload relays (protection devices: overload relays)

3RU11 , thermal, CLASS 10	3RU11 16	0.1 – 12 A (Sect. 5)	3RU11 26	1.8 – 25 A (Sect. 5)	3RU11 36	5.5 – 50 A (Sect. 5)
3RB10 , solid-state, CLASS 10/20	3RB10 16	0.1 – 12 A (Sect. 5)	3RB10 26	3 – 25 A (Sect. 5)	3RB10 36	6 – 50 A (Sect. 5)
3RB12 , solid-state, CLASS 5 – 30	3RB12 46	0.25 – 100 A (Section 5)				

3RV10 circuit-breakers (protection devices: circuit-breakers)

Type	3RV10 11	0.18 – 12 A (Sect. 4)	3RV10 21	9 – 25 A (Sect. 4)	3RV10 31	22 – 50 A (Sect. 4)
Link modules	3RA19 11	(Sect. 4)	3RA19 21	(Sect. 4)	3RA19 31	(Sect. 4)

3RA13 reversing contactor assemblies

Complete units	Type	3RA13 15	3RA13 16	3RA13 17	3RA13 24	3RA13 25	3RA13 26	3RA13 34	3RA13 35	3RA13 36
		(p. 2/96)			(p. 2/97)			(p. 2/98)		
400 V	kW	3	4	5.5	5.5	7.5	11	15	18.5	22
Installation kits/wiring connectors		3RA19 13-2A	(p. 2/101)		3RA19 23-2A	(p. 2/101)		3RA19 33-2A	(p. 2/101)	
Mechanical interlocks		3RA19 12-2H	(p. 2/102)		3RA19 24-1A/-2B	(p. 2/100)				

3RA14 contactor assemblies for star-delta starting

Complete units	Type	3RA14 15	3RA14 16	3RA14 23	3RA14 25	3RA14 34	3RA14 35	3RA14 36	
		(p. 2/108)		(p. 2/109)		(p. 2/110)	(p. 2/111)		
400 V	kW	5.5	7.5	11	15/18.5	22/30	37	45	
Installation kits/wiring connectors		3RA19 13-2B	(p. 2/113)		3RA19 23-2B	(p. 2/113)		3RA19 33-2B/-2C	(p. 2/113)



S3
3RT1. 4

S6
3RT1. 5

S10
3RT1. 6

S12
3RT1. 7

14
3TF6

3RT10 44 (p. 2/55, 2/58)	3RT10 45	3RT10 46	3RT10 54 (p. 2/59)	3RT10 55	3RT10 56	3RT10 64 (p. 2/59)	3RT10 65	3RT10 66	3RT10 75 (p. 2/59)	3RT10 76	-	
-			-			3RT12 64 (p. 2/71)	3RT12 65	3RT12 66	3RT12 75 (p. 2/71)	3RT12 76	3TF68 (p. 2/78)	3TF69
65	80	95	115	150	185	225	265	300	400	500	630	820
30	37	45	55	75	90	110	132	160	200	250	335	450
18.5	22	22	37	45	55	55	75	90	132	160	200	260
37	45	55	75	90	110	160	160	200	250	355	434	600
45	55	55	110	132	160	200	250	250	400	400/500	600	800
30	37	37	75	90	90	90/315	132/355	132/400	250/560	250/710	600	800
30	37	45	55	75	90	110	132	160	200	250	355	400
15.1	17.9	22	29	38	45	54/78	66/93	71/112	84/140	98/161	168	191
100	120	120	160	185	215	275/330	330	330	430/610	610	700	910
3RT14 46 (p. 2/116)			3RT14 56 (p. 2/124)			3RT14 66 2/124 (P.)			3RT14 76 (p. 2/124)		-	
140			275			400			690		-	
											-	
											3TY7 561 (p. 2/198)	
3RT19 46-4EA1/2 (p. 2/191)			3RT19 56-4EA1/2/3 (p. 2/191)			3RT19 66-4EA1/2/3 (p. 2/191)			3TX7 686/696 (p. 2/198)			
-			3RT19 55/56-4G (p. 2/191)			3RT19 66-4G (p. 2/191)			-			
											3TX7 572 (p. 2/197)	
3RU11 46 18 – 100 A (Sect. 5)			-			-			-		-	
3RB10 46 13 – 100 A (Sect. 5)			3RB10 56 50 – 200 A (Sect. 5)			3RB10 66 55 – 250/200 – 540 A (Section 5)			3RB10 66 200 – 540 A (Section 5)		3RB10 66 300 – 630 A (Section 5)	
			3RB12 53 50 – 205 A (Sect. 5)			3RB12 57 125 – 500 A (Section 5)					3RB12 62 200 – 820 A (Section 5)	
3RV10 41 45 – 100 A (Sect. 4)			-			-			-		-	
3RA19 41 (Sect. 4)			-			-			-		-	
3RA13 44 3RA13 45 3RA13 46 (p. 2/99)			-			-			-		3TD68 04 (p. 2/103)	
30	37	45	55	75	90	110	132	160	200	250	335	
3RA19 43-2A (p. 2/101)			3RA19 53-2A (p. 2/101)			3RA19 63-2A (p. 2/101)			3RA19 73-2A (p. 2/101)		3TX7 680-1A	
			3RA19 54-2A (p. 2/100)								3TX7 686-1A	
3RA14 44 3RA14 45 (p. 2/112)			-			-			-		3TE68 04 (p. 2/115)	
55	75		-			-			-		630	
3RA19 43-2B/-2C (p. 2/113)			3RA19 53-2B (p. 2/113)			3RA19 63-2B (p. 2/113)			3RA19 73-2B (p. 2/113)		3TX7 680-1B	