

Technical specifications

All technical specifications not mentioned in the table below are identical to those of the 3RT10 17 contactors for size S00, to those of the 3RT10 26 contactors for size S0 and to those of the 3RT10 45 contactors for size S3.

Contactor	Type Size		3RT16 17-.A..3 S00	3RT16 27-.A..1 S0	3RT16 47-.A..1 S3
Capacitor rating at rated power (utilization category AC-6b)		230 V, 50/60 Hz kvar	3 ... 7.5	3.5 ... 15	3.5 ... 30
		400 V, 50/60 Hz kvar	5 ... 12.5	6 ... 25	5 ... 50
		525 V, 50/60 Hz kvar	7.5 ... 15	7.8 ... 30	7.5 ... 60
		690 V, 50/60 Hz kvar	10 ... 21	10 ... 42	10 ... 84
Auxiliary contacts mounted (unassigned)			1 NO + 1 NC	1 NO	
Auxiliary contacts mountable (lateral), not for sizes S00 and S0			--		2 NC + 2 NO or 1 NO + 1 NC
Magnetic coil operating range			0.8 ... 1.1 x U_s		
Max. switching frequency		h ⁻¹	180	100	
Electrical endurance		Oper- ating cycles	> 250000	> 150000	> 100000
Ambient temperature		°C	60		
Standards			IEC 60947/EN 60947 (VDE 0660)		
Short-circuit protection			1.6 ... 2.2 x I_e		

Conductor cross-sections

Screw terminals

(1 or 2 conductors can be connected)

Main conductors

- Solid
- Finely stranded with end sleeve
- AWG cables
 - solid
 - solid or stranded
 - stranded
- Terminal screws
 - tightening torque

	mm ²	mm ²	AWG	AWG	AWG	Nm	lb.in
Screw terminals	2 x (0.5 ... 1.5); 2 x (0.75 ... 2.5) Acc. to IEC 60947; Max. 2 x (1 ... 4)	2 x (1 ... 2.5); 2 x (2.5 ... 6) Acc. to IEC 60947; Max. 1 x 10 ¹⁾					
	2 x (0.5 ... 1.5); 2 x (0.75 ... 2.5)	2 x (1 ... 2.5); 2 x (2.5 ... 6) ¹⁾					
			2 x (20 ... 16)	2 x (16 ... 12)			
			2 x (18 ... 14)	2 x (14 ... 10)			
			1 x 12	1 x 8			
			M3	M4 (Poqidriv size 2)			
			0.8 ... 1.2	2 ... 2.5			
			7 ... 10.3	18 ... 22			

¹⁾ 3RV19 25-5AB feeder terminal for 16 mm².

3RT, 3RH, 3TB, 3TC, 3TH, 3TK Contactors for Special Applications

3RT16 Capacitor Contactors

12.5 ... 50 kvar

Contactors	Type Size	3RT16 17-.A..3 S00	3RT16 27-.A..1 S0	3RT16 47-.A..1 S3
Conductor cross-sections				
Screw terminals (1 or 2 conductors can be connected)		Screw terminals		
Front clamping point connected				
	Main conductors: with box terminal <ul style="list-style-type: none"> • Finely stranded with end sleeve mm² • Finely stranded without end sleeve mm² • Solid mm² • Stranded mm² • Ribbon cable conductors (number x width x thickness) mm • AWG cables, solid or stranded AWG 			2.5 ... 35 4 ... 50 2.5 ... 16 4 ... 70 6 x 9 x 0.8 10 ... 2/0
Rear clamping point connected				
	<ul style="list-style-type: none"> • Finely stranded with end sleeve mm² • Finely stranded without end sleeve mm² • Solid mm² • Stranded mm² • Ribbon cable conductors (number x width x thickness) mm • AWG cables, solid or stranded AWG 			2.5 ... 50 10 ... 50 2.5 ... 16 10 ... 70 6 x 9 x 0.8 10 ... 2/0
Both clamping points connected				
	<ul style="list-style-type: none"> • Finely stranded with end sleeve mm² • Finely stranded without end sleeve mm² • Solid mm² • Stranded mm² • Ribbon cable conductors (number x width x thickness) mm • AWG cables, solid or stranded AWG • Terminal screw - tightening torque Nm lb.in 			Max. 2 x 35 Max. 2 x 35 Max. 2 x 16 Max. 2 x 50 2 x (6 x 9 x 0.8) 2 x (10 ... 1/0) M6 (hex. socket, A/F 4) 4 ... 6 36 ... 53
Connection for drilled copper bars ¹⁾	Max. width	mm	10	
Without box terminal with cable lugs ²⁾ (1 or 2 conductors can be connected)	<ul style="list-style-type: none"> • Finely stranded with cable lug mm² • Stranded with cable lug mm² • AWG cables, solid or stranded AWG 			10 ... 50 ³⁾ 10 ... 70 ³⁾ 7 ... 1/0
Auxiliary conductors:				
<ul style="list-style-type: none"> • Solid mm² • Finely stranded with end sleeve mm² • AWG cables, solid or stranded AWG • Terminal screw - tightening torque Nm lb.in 		2 x (0.5 ... 1.5) ⁴⁾ 2 x (0.75 ... 2.5) ⁴⁾ acc. to IEC 60947; max. 2 x (1 ... 4) 2 x (0.5 ... 1.5) ⁴⁾ 2 x (0.75 ... 2.5) ⁴⁾	2 x (0.5 ... 1.5) ⁴⁾ 2 x (0.75 ... 2.5) ⁴⁾ 0.75) acc. to IEC 60947; max. 2 x (0.75 ... 4)	
Cage Clamp terminals (1 or 2 conductors can be connected)				
<ul style="list-style-type: none"> • Solid mm² • Finely stranded with end sleeve mm² • Finely stranded without end sleeve mm² • AWG cables, solid or stranded AWG 				2 x (0.25 ... 2.5) 2 x (0.25 ... 1.5) 2 x (0.25 ... 2.5) 2 x (24 ... 14)

¹⁾ If bars larger than 12 x 10 mm are connected, a 3RT19 46-4EA1 terminal cover is needed to comply with the phase clearance.

²⁾ When connecting conductors which are larger than 25 mm², the 3RT19 46-4EA1 terminal cover must be used to keep the phase clearance.

³⁾ Only with crimped cable lugs according to DIN 46234.
Cable lug max. 20 mm wide.

⁴⁾ If two different conductor cross-sections are connected to one clamping point, both cross-sections must lie in the range specified. If identical cross-sections are used, this restriction does not apply.