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 17A3 S00	3RT16 27A1 S0	3RT16 47A…1 S3
Capacitor rating at rated power (utilization category AC-6b)	230 V, 50/60 F 400 V, 50/60 F 525 V, 50/60 F 690 V, 50/60 F	Hz kvar Hz kvar	3 7.5 5 12.5 7.5 15 10 21	3.5 15 6 25 7.8 30 10 42	3.5 30 5 50 7.5 60 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
Operating range of the magnet	ic coils	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		
Regulations			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	mm²	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⁾	
	 Finely stranded with end sleeve 	mm ²	2 x (0.5 1.5); 2 x (0.75 2.5)	2 x (1 2.5); 2 x (2.5 6) ¹⁾	
	 AWG conductors Solid Solid or stranded Stranded Terminal screws Tightening torque 	AWG AWG AWG Nm Ib.in	2 x (20 16) 2 x (18 14) 1 x 12 M3 0.8 1.2 7 10.3	2 x (16 12) 2 x (14 10) 1 x 8 M4 (Pozidriv size 2) 2 2.5 18 22	

1) 3RV19 25-5AB infeed 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 17A3 S00	3RT16 27A1 S0	3RT16 47A1 S3
Conductor cross-sections					
Screw terminals (1 or 2 conductors can be connected)	Main conductors: with box terminal				
Front clamping point connected	Finely stranded with end sleeveFinely stranded without end sleeve	mm² mm²			2.5 35 4 50
N SPOOT79	SolidStranded	mm² mm²			2.5 16 4 70
	 Ribbon cable conductors (number x width x circumference) 	mm			6 x 9 x 0.8
	AWG conductors, solid or stranded	AWG			10 2/0
Rear clamping point connected	Finely stranded with end sleeveFinely stranded without end sleeve	mm² mm²			2.5 50 10 50
NBROHAD	SolidStranded	mm² mm²			2.5 16 10 70
	 Ribbon cable conductors (number x width x circumference) 	mm			6 x 9 x 0.8
	AWG conductors, solid or stranded	AWG			10 2/0
Both clamping points connected	Finely stranded with end sleeveFinely stranded without end sleeve	mm² mm²			Max. 2 x 35 Max. 2 x 35
NSBOA41	 Solid Stranded Ribbon cable conductors (number x width x circumference) 	mm² mm² mm	 		Max. 2 x 16 Max. 2 x 50 2 x (6 x 9 x 0.8)
	• AWG conductors, solid or stranded	AWG			2 x (10 1/0)
	 Terminal screw Tightening torque 	NM lb. in	-		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		mm² mm²			10 50 ³⁾ 10 70 ³⁾
	• AWG conductors, solid or stranded	AWG			7 1/0
	Auxiliary conductors:				
	• Solid	mm²	$2 \times (0.5 \dots 1.5)^{4)}$. $2 \times (0.75 \dots 2.5)^{4)}$ According to IEC 60947; max. $2 \times (1 \dots 4)$	$2 \times (0.5 \dots 1.5)^{4}$, $2 \times (0.75 \dots 2.5)^{4}$ according to IEC 60947; max. $2 \times (0.75 \dots 4)$	
	Finely stranded with end sleeve	mm ²	$2 \times (0.5 \dots 1.5)^{4}$ $2 \times (0.75 \dots 2.5)^{4}$		
	AWG conductors, solid or stranded	AWG	2 x (20 16) ⁴⁾ ; 2 x (18 14) ⁴⁾ ; 1 x 12		
	Terminal screw Tightening torque	Nm Ib.in	M3 0.8 1.2 7 10.3		
Cage Clamp terminals (1 or 2 conductors can be connected	Auxiliary conductors:				
	• Solid	mm ²	2 x (0.25 2.5)		
	Finely stranded with end sleeveFinely stranded without end sleeve	mm ² mm ²	2 x (0.25 1.5) 2 x (0.25 2.5)		
	AWG conductors, solid or stranded	AWG	2 x (24 14)		

cover is needed to comply with the phase clearance.

 $^{2)}$ When connecting conductors which are larger than 25 $\rm mm^2,$ the 3RT19 46-4EA1 cover must be used to keep the phase clearance. $^{\rm 3)}$ Only with crimped cable lugs according to DIN 46234.

Cable lug max. 20 mm wide.

⁴⁾ If two different conductor cross-sections are connected at one clamping point, then the two cross-sections must lie within the range quoted. If identical cross-sections are used, this restriction does not apply.