

## Technical specifications

Contactors	Type Size		3RT15 16 S00	3RT15 17 S00	3RT15 26 S0	3RT15 35 S2
<b>General data</b>						
<b>Permissible mounting position<sup>1)</sup></b>						
<b>Mechanical endurance</b>		Operating cycles	30 million		10 million	
<b>Electrical endurance at <math>I_e/AC-1</math></b>		Operating cycles	Approx. 0.5 million			
<b>Rated insulation voltage <math>U_i</math></b> (degree of pollution 3)		V	690			
<b>Permissible ambient temperature</b>	During operation	°C	-25 ... +60			
	During storage	°C	-55 ... +80			
<b>Degree of protection</b> according to EN 60947-1, Appendix C			IP20		IP20 (IP00 terminal compartment)	
<b>Touch protection</b> according to EN 50274			Finger-safe			
<b>Short-circuit protection of contactors without overload relays</b>						
<b>Main circuit</b>						
Fuse links, gL/gG	Type of coordination "1"	A	35		63	160
LV HRC 3NA, DIAZED 5SB, NEOZED 5SE	Type of coordination "2"	A	20		35	80
- Acc. to IEC 60947-4-1/ EN 60947-4-1	Weld-free	A	10		16	50
<b>Control</b>						
<b>Magnetic coil operating range</b>						
	AC at 50 Hz		0.8 ... 1.1 x $U_s$			
	AC at 60 Hz		0.85 ... 1.1 x $U_s$			
	DC at 50 °C		0.8 ... 1.1 x $U_s$			
	DC at 60 °C		0.85 ... 1.1 x $U_s$			
	AC/DC				0.8 ... 1.1 x $U_s$	
<b>Power consumption of the magnetic coils</b> (when coil is cold and 1.0 x $U_s$ )						
AC operation, 50 Hz	Closing	VA			61	145
	P.f.	VA			0.82	0.79
	Closed	VA			7.8	12.5
	P.f.	VA			0.24	0.36
AC operation, 50/60 Hz	Closing	VA	26.5/24.3		64/63	170/155
	P.f.	VA	0.79/0.75		0.82/0.74	0.76/0.72
	Closed	VA	4.4/3.4		8.4/6.8	15/11.8
	P.f.	VA	0.27/0.27		0.24/0.28	0.35/0.38
DC operation	Closing = Closed	W	3.3		5.6	13.3
<b>Operating times for 0.8 ... 1.1 x <math>U_s</math><sup>2)</sup></b>						
Total break time = Opening delay + Arcing time						
AC/DC operation						
• DC operation	Closing delay	ms	25 ... 100		30 ... 90	50 ... 110
	Opening delay	ms	7 ... 10		13 ... 40	15 ... 30
• AC operation	Closing delay	ms	8 ... 35		6 ... 30	4 ... 35
	Opening delay	ms	4 ... 30		13 ... 25	10 ... 30
• Arcing time		ms	10 ... 15			

<sup>1)</sup> In accordance with the corresponding 3-pole 3RT1 contactors.

<sup>2)</sup> With size S00, DC operation: Operating times at 0.85 ... 1.1 x  $U_s$ .

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

## 3RT15 Contactors

4-pole, 2 NO + 2 NC, 4 ... 18.5 kW

Contactor	Type Size	3RT15 16 S00	3RT15 17 S00	3RT15 26 S0	3RT15 35 S2
<b>Main circuit</b>					
<b>AC capacity</b>					
<b>Utilization category AC-1, switching resistive loads</b>					
Rated operational currents $I_e$	at 40 °C up to 690 V A at 60 °C up to 690 V A	18 16	22 20	40 35	60 55
Rated power for AC loads P.f. = 0.95 (at 60 °C)	at 230 V kW 400 V kW	6.5 11	7.5 13	15 26	20 36
Minimum conductor cross-section for loads with $I_e$	at 40 °C mm <sup>2</sup>	2.5	2.5	10	16
<b>Utilization category AC-2 and AC-3</b>					
Rated operational currents $I_e$ (at 60 °C)	up to 400 V A	9	12	25 <sup>1)</sup>	40
Rated power of slipping or squirrel-cage motors at 50 and 60 Hz	at 230 V kW 400 V kW	3 4	3 5.5	5.5 11	9.5 18.5
<b>Load rating with DC</b>					
<b>Utilization category DC-1, switching resistive loads (<math>L/R \leq 1</math> ms)</b>					
<b>Rated operational currents <math>I_e</math> (at 60 °C)</b>					
• 1 conducting path	up to 24 V A 60 V A 110 V A 220 V A 440 V A	16 16 2.1 0.8 0.6	20 20 2.1 0.8 0.6	35 20 4.5 1 0.4	50 23 4.5 1 0.4
• 2 conducting paths in series	up to 24 V A 60 V A 110 V A 220 V A 440 V A	16 16 12 1.6 0.8	20 20 12 1.6 0.8	35 35 35 5 1	50 45 45 5 1
<b>Utilization category DC-3/DC-5<sup>2)</sup>, shunt-wound and series-wound motors (<math>L/R \leq 15</math> ms)</b>					
<b>Rated operational currents <math>I_e</math> (at 60 °C)</b>					
• 1 conducting path	up to 24 V A 60 V A 110 V A 220 V A 440 V A	16 0.5 0.15 0.75 --	20 0.5 0.15 0.75 --	20 5 2.5 1 0.09	35 6 2.5 1 0.1
• 2 conducting paths in series	up to 24 V A 60 V A 110 V A 220 V A 440 V A	16 5 0.35 -- --	20 5 0.35 -- --	35 35 15 3 0.27	50 45 25 5 0.27

<sup>1)</sup> For AC operation: 25 A  
DC operation: 20 A.

<sup>2)</sup> For  $U_e > 24$  V the rated operational currents  $I_e$  for the NC contact conducting paths are 50 % of the values for the NO contact conducting paths.