Technical specifications

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

[1] In accordance with the corresponding 3-pole 3RT1 contactors.

[2] With size S00, DC operation: Operating times at 0.85 ... 1.1 x U_s.

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

[1] For AC operation: 25 A
DC operation: 20 A.

[2] For U_s >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.