SIRIUS 3RT15 Contactors with 4 Main Contacts for Switching Resistive Loads

Contactor Type		Unit of Measure	3RT1526		3RT1535	
Mechanical endurance		Oper. cycles	10 million			
Electrical endurance at I_e / AC - 1		Oper. cycles	approx. 0.5 million			
Rated insulation voltage U_i (pollution degree 3)		V	690			
Permissible ambient temperature	in operation	°C	-25 to +60			
	when stored	°C	-55 to +80			
Degree of protection acc. to IEC 60 947-1 and DIN 40 050			IP 20		IP20 (term. compartment IP 00)	
Power consumption of the coils (with coil in cold state and 1.1 x U_S)						
AC operation		Hz	50	50/60	50	50/60
	closing	VA	61	64/63	127	127/160
	p.f.		0.82	0.82/0.74	0.82	0.82/0.85
	closed	VA	7.8	8.4/6.8	13.5	13.5/14.2
	p.f		0.24	0.24/0.28	0.34	0.34/0.37
DC operation	closing = closed	W	5.6		11.5	
Coil voltage tolerance			0.8 to 1.1 x U_s			
Operating times at 0.8 to 1.1 x U_s						
Break time = opening time + arcing time						
AC/DC operation	closing time	ms	6 to 30/30 to 90		4 to 35/50 to 110	
AC/DC operation	opening time	ms	13 to 25/13 to 40		10 to 30/15 to 30	
Arcing time		ms	10 to 15		10 to 15	
Short-circuit protection of contactors without overload relays						
Main circuit						
Fuse links, utilization category gL/gG						
NH Type 3NA						
DIAZED Type 5SB,						
NEOZED Type 5SE						
- acc. to IEC 60 947-4-1/						
EN 60 947-4-1 (VDE 0660 Part 102)						
	Type of coord. "1"①	A	63		160	
	Type of coord. "2"①	A	35		80	
	Weld-free	A	16		50	
Load ratings with AC						
AC-1 utilization category, switching resistive load						
Rated operational currents I_e (at 40°C)	up to 690V	A	40		55	
Ratings	at 230V	kW	15		20	
of three-phase loads	400V	kW	26		36	
p.f. = 0.95 (at 40°C)						
Minimum conductor cross-section with I_e load	at 40°C	mm²	10		16	
AC-2 and AC-3 utilization categories						
Rated operational current I_e (at 60°C)	up to 400V	A	25		40	
Ratings of motors	at 230V	kW	5.5		9.5	
with slipring or squirrel-cage rotor at 50 Hz and 60 Hz	400V	kW	11		18.5	
Load ratings with DC						
DC-1 utilization category, switching resistive load (L/R ≤ 1 ms)						
Rated operational currents I_e (at 60°C)						
	Number of conducting paths connected in series		1	2	1	2
	up to 24V	A	35	35	55	55
	60V	A	20	35	23	45
	110V	A	4.5	35	4.5	45
	220V	A	1	5	1	5
	440V	A	0.4	1	0.4	1
	600V	A	0.25	0.8	0.25	0.8
DC-3 and DC-5 utilization categories, shunt and series motors (L/R ≤ 15 ms)						
Rated operational currents I_e (at 60°C)						
	Number of conducting paths connected in series		1	2	1	2
	up to 24V	A	20	35	35	80
	60V	A	5	35	6	45
	110V	A	2.5	15	2.5	25
	220V	A	1	3	1	5
	440V	A	0.09	0.27	0.1	0.27
	600V	A	0.06	0.16	0.06	0.16

①According to excerpt from IEC 60 947-4-1 (VDE 0660 Part 102):
Type of coordination "1":
Destruction of the contactor and the overload relay is permissible. The contactor and/or overload relay must be replaced if necessary.

Type of coordination "2":
No damage can be tolerated to the overload relay, but the contact welding on the contactor is permitted if the contacts can be easily separated.