## **SIEMENS**

Data sheet 3RT1065-2AR36

SIRIUS





power contactor, AC-3e/AC-3 265 A, 132 kW / 400 V AC (50-60 Hz) / DC Uc: 440-480 V 3-pole, auxiliary contacts 2 NO + 2 NC drive: conventional main circuit: busbar control and auxiliary circuit: spring-loaded terminal



product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT1
General technical data	
size of contactor	S10
product extension	
<ul> <li>function module for communication</li> </ul>	No
auxiliary switch	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	54 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	18 W
<ul> <li>without load current share typical</li> </ul>	7.4 W
type of calculation of power loss depending on pole	quadratic
insulation voltage	
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	1 000 V
<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	500 V
surge voltage resistance	
<ul> <li>of main circuit rated value</li> </ul>	8 kV
<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	690 V
shock resistance at rectangular impulse	
• at AC	8,5g / 5 ms, 4,2g / 10 ms
• at DC	8,5g / 5 ms, 4,2g / 10 ms
shock resistance with sine pulse	
• at AC	13,4g / 5 ms, 6,5g / 10 ms
• at DC	13,4g / 5 ms, 6,5g / 10 ms
mechanical service life (operating cycles)	
of contactor typical	10 000 000
<ul> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> </ul>	5 000 000
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	10 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	05/01/2012
SVHC substance name	Lead - 7439-92-1
Weight	6.592 kg
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m

ambient temperature		
during storage	ambient temperature	
Intellate humbidly minimum	<ul> <li>during operation</li> </ul>	-25 +60 °C
Environmental Foodurch Deducation (PDP)  global warming potential (CO2 eq) total global warming potential (CO2 eq) after end of life  3.15 kg global warming potential (CO2 eq) after end of life  7.22 kg  Semens Eco Profile (EEP) Semens Eco Profile (EEP)  Number of Poce totals for main current fercult number of Poce totals for main contacts 0  operating voltage  4.14 CO-3 reted value maximum 0 + at AC-3 reted value retermine 80 °C rated value 0 + at AC-3 rete	during storage	-55 +80 °C
Environmental Product Declaration(EPD)	relative humidity minimum	10 %
Environmental Footuplet Environmental Product Declaration(EPD) Soloul warming potential (CO2 eq) duting manufacturing global warming potential (CO2 eq) duting sales 2		95 %
Envisormental Product Declaration(EPD)		
global warming preterial (CO2 eq) during asses global warming preterial (CO2 eq) during asses global warming preterial (CO2 eq) during parelation 32 kg global warming preterial (CO2 eq) during operation 52 kg global warming preterial (CO2 eq) during operation 52 kg global warming preterial (CO2 eq) during operation 52 kg Siemens Eco Profile (SEP) Siemens Eco Profile (SEP) Minor circuit  number of PO centacts for main current circuit 3 number of PO centacts for main contacts 0 operating voltage  at AC-3 rated value maximum 4 to CO3 rated value maximum 5 at AC-3 rated value maximum 6 at AC-3 rated value maximum 7 to 1000 V 7 to 2 during voltage 7 to 1000 V 7 to 2 during voltage 8 at AC-3 rated value maximum 9 to 590 V at ambient temperature 40 "C rated value 9 at AC-3 rated value voltage 9 up to 1000 V at ambient temperature 40 "C rated value 9 to 1000 V at ambient temperature 40 "C rated value 9 up to 1000 V at ambient temperature 40 "C rated value 9 up to 1000 V at ambient temperature 40 "C rated value 9 up to 1000 V at ambient temperature 40 "C rated value 9 at AC-3 1 at 900 V rated value 9 at AC-3 1 at 900 V rated value 9 55 A 1 at 900 V rated value 9 56 A 1 at 900 V rated value 9 56 A 1 at 900 V rated value 9 56 A 1 at 900 V rated value 9 56 A 1 at 900 V rated value 9 56 A 1 at 900 V rated value 9 56 A 1 at 900 V rated value 9 56 A 1 at 900 V rated value 9 56 A 1 at 900 V rated value 9 56 A 1 at 900 V rated value 9 56 A 1 at 900 V rated value 9 56 A 1 at 900 V rated value 9 56 A 1 at 900 V rated value 9 56 A 1 at 900 V rated value 9 56 A 1 at 900 V rated value 9 56 A 1 at 900 V rated value 9 56 A 1 at 900 V rated value 9 57 A 1 at 900 V rated value 9 58 A 1 at 900 V rated value 9 1000 V for current peak value n=20 rated value 9 1000 V for current peak value n=20 rated value 9 1000 V for current peak value n=20 rated value 9 1000 V for current peak value n=20 rated value 9 1000 V for current peak value n=20 rated value 9 1000 V for current peak value n=30 rated value 9 1000 V for current peak value n=30 rated		Yes
global warming potential (CO2 eq) during manufacturing global warming potential (CO2 eq) during sales global warming potential (CO2 eq) during operation SE2 ltg global warming potential (CO2 eq) during operation SE3 ltg global warming potential (CO2 eq) during operation SE3 ltg global warming potential (CO2 eq) during operation SE4 ltg Semens Eco Tech Monarcrost  ***Control (SEP)** Semens Eco Tech ***Monarcrost ***Control (SEP)** *		548 kg
2 6 kg   2		
Siemens Eco Profile (SEP)   Siemens Eco Tech		-
Siemens Eco Profile (SEP)   Siemens Eco Tech	global warming potential [CO2 eq] during operation	521 kg
Slemens Eco Profile (SEP)  Slemens EcoTech  Minim circuit  anumber of No contacts for main current circuit  anumber of No contacts for main contacts  operating voltage  at AC-3 rated value maximum  1 000 V  at AC-3 rated value maximum  1 000 V  operational current  at AC-1 at 400 V at ambient temperature 40 °C rated value  up to 590 V at ambient temperature 40 °C rated value  up to 1000 V at ambient temperature 80 °C rated value  up to 1000 V at ambient temperature 80 °C rated value  up to 1000 V rated value  at AC-3  at 400 V rated value  at 500 V rated value  at 500 V rated value  at 500 V rated value  at 690 V rated value  at AC-3 au At 60-3 au At 600 V rated value  at AC-3 au At 600 V rated value  at AC-3 au 690 V roted value  at AC-3 au 690 V for current peak value n=30 rated value  au 190 to 500 V for current peak value n=30 rated value  au 190 to 500 V for current peak value n=30 rated value  au 190 to 500 V for current peak valu		-7.22 kg
number of poles for main current circuit   3   3     number of NO contacts for main contacts   3     number of NO contacts for main contacts   0     operating voltage   • at AC-3 rated value maximum   1 000 V     • at AC-3 rated value maximum   1 000 V     • at AC-3 rated value maximum   1 000 V     • at AC-3 rated value maximum   1 000 V     • at AC-1   - up to 690 V at ambient temperature 40 °C rated value   - up to 690 V at ambient temperature 60 °C rated value   - up to 1000 V   at ambient temperature 60 °C rated value   - up to 1000 V at ambient temperature 60 °C rated value   - up to 1000 V at ambient temperature 60 °C rated value   - up to 1000 V at ambient temperature 60 °C rated value   - up to 1000 V at ambient temperature 60 °C rated value   - up to 1000 V rated value   265 A   - at 400 V rated value	Siemens Eco Profile (SEP)	Siemens EcoTech
number of NC contacts for main contacts	Main circuit	
Number of NC contacts for main contacts	number of poles for main current circuit	3
Operating voltage	number of NO contacts for main contacts	3
at AC-3 rated value maximum brown at AC-3 rated value maximum coparational current at AC-1 at 400 V at ambient temperature 40 °C rated value at AC-1 at 400 V at ambient temperature 40 °C rated value at AC-1 at 400 V at ambient temperature 40 °C rated value auto brown brown at ambient temperature 40 °C rated value auto auto auto brown brown at ambient temperature 40 °C rated value auto auto brown brown at ambient temperature 40 °C rated value auto auto brown brown at ambient temperature 40 °C rated value auto auto brown brown at ambient temperature 40 °C rated value auto auto auto brown at AC-3 aut 400 V rated value auto auto auto auto auto auto auto auto	number of NC contacts for main contacts	0
a I AC-3 at 400 V at ambient temperature 40 °C rated value at AC-1  — up to 690 V at ambient temperature 40 °C rated value au pu to 690 V at ambient temperature 40 °C rated value — up to 1000 V at ambient temperature 40 °C rated value — up to 1000 V at ambient temperature 40 °C rated value — up to 1000 V at ambient temperature 60 °C rated value — up to 1000 V at ambient temperature 60 °C rated value — up to 1000 V at ambient temperature 60 °C rated value — up to 1000 V rated value — at 500 V rated value — at 500 V rated value — at 690 V rated value — at 1000 V rated value — at 690 V rated value — at 500 V rated value — at 500 V rated value — at 690 V rated value — at 1000 V rated value — at AC-3 au to 690 V rated value — at AC-3 au to 690 V rated value — at AC-3 au to 690 V rocurent peak value n=20 rated value — up to 230 V for current peak value n=20 rated value — up to 500 V for current peak value n=20 rated value — up to 500 V for current peak value n=20 rated value — up to 500 V for current peak value n=20 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 5	operating voltage	
operational current		1 000 V
at AC-1 at 400 V at ambient temperature 40 °C rated value  up to 690 V at ambient temperature 40 °C rated value  up to 690 V at ambient temperature 60 °C rated value  up to 1000 V at ambient temperature 60 °C rated value  up to 1000 V at ambient temperature 60 °C rated value  up to 1000 V at ambient temperature 60 °C rated value  up to 1000 V at ambient temperature 60 °C rated value  up to 1000 V at ambient temperature 60 °C rated value  at AC-3  — at 400 V rated value — at 500 V rated value — at 600 V rated value — at 600 V rated value — at 500 V rated value — at 600 V rated value — at 1000 V rated value — at 1000 V rated value — at AC-3 au p to 690 V rated value  at AC-3 au p to 690 V rated value  at AC-5 au p to 690 V rated value  at AC-6 a — up to 230 V for current peak value n=20 rated value — up to 500 V for current peak value n=20 rated value — up to 500 V for current peak value n=20 rated value — up to 500 V for current peak value n=20 rated value — up to 500 V for current peak value n=20 rated value — up to 500 V for current peak value n=20 rated value — up to 500 V for current peak value n=20 rated value — up to 500 V for current peak value n=20 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 1000 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 1000 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=3	• at AC-3e rated value maximum	1 000 V
value  • at AC-1  — up to 690 V at ambient temperature 40 °C rated value  — up to 1000 V at ambient temperature 60 °C rated value  — up to 1000 V at ambient temperature 60 °C rated value  — up to 1000 V at ambient temperature 60 °C rated value  — up to 1000 V at ambient temperature 60 °C rated value  — up to 1000 V at ambient temperature 60 °C rated value  — up to 1000 V rated value  — at 400 V rated value  — at 500 V rated value  — at 1000 V rated value  — at 500 V rated value  — at 690 V rated value  — at 600 V rated value  — at 600 V rated value  — 265 A  — at 400 V rated value  — 255 A  • at AC-5a up to 690 V rated value  • at AC-5a up to 690 V rated value  • at AC-5a up to 690 V rated value  — up to 1020 V for current peak value n=20 rated value  — up to 500 V for current peak value n=20 rated value  — up to 500 V for current peak value n=20 rated value  — up to 500 V for current peak value n=20 rated value  — up to 500 V for current peak value n=20 rated value  — up to 500 V for current peak value n=20 rated value  — up to 500 V for current peak value n=20 rated value  — up to 500 V for current peak value n=20 rated value  — up to 500 V for current peak value n=20 rated value  — up to 500 V for current peak value n=20 rated value  — up to 500 V for current peak value n=30 rated value  — up to 500 V for current peak value n=30 rated value  — up to 500 V for current peak value n=30 rated value  — up to 500 V for current peak value n=30 rated value  — up to 500 V for current peak value n=30 rated value  — up to 500 V for current peak value n=30 rated value  — up to 500 V for current peak value n=30 rated value  — up to 500 V for current peak value n=30 rated value  — up to 500 V for current peak value n=30 rated value  — up to 500 V for current peak value n=30 rated value  — up to 500 V for current peak value n=30 r	operational current	
- up to 690 V at ambient temperature 40 °C rated value  - up to 690 V at ambient temperature 60 °C rated value  - up to 1000 V at ambient temperature 40 °C rated value  - up to 1000 V at ambient temperature 60 °C rated value  - up to 1000 V at ambient temperature 60 °C rated value  • at AC-3  - at 400 V rated value  - at 690 V rated value  - at 690 V rated value  - at 690 V rated value  - at 400 V rated value  - at 690 V rated value  - at AC-5 up to 400 V rated value  - at AC-5 up to 400 V rated value  - at AC-5 up to 400 V for current peak value n=20 rated value  - up to 500 V for current peak value n=20 rated value  - up to 500 V for current peak value n=20 rated value  - up to 500 V for current peak value n=20 rated value  - up to 400 V for current peak value n=20 rated value  - up to 400 V for current peak value n=30 rated value  - up to 500 V for current peak value n=30 rated value  - up to 500 V for current peak value n=30 rated value  - up to 500 V for current peak value n=30 rated value  - up to 500 V for current peak value n=30 rated value  - up to 1000 V for current peak value n=30 rated value  - up to 1000 V for current peak value n=30 rated value  - up to 1000 V for current peak value n=30 rated value  - up to 1000 V for current peak value n=30 rated value  - up to 1000 V for current peak value n=30 rated value  - up to 1000 V for current peak value n=30 rated value  - up to 1000 V for current peak value n=30 rated value  - up to 1000 V for current peak value n=30 rated value  - up to 1000 V for current peak value n=30 rated value  - up to 1000 V for current peak value n=30 r	value	330 A
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value  up to 1000 V at ambient temperature 60 °C rated value  • at AC-3  at 400 V rated value at 690 V rated value at 690 V rated value at 400 V rated value at 500 V rated value at 500 V rated value at 500 V rated value at 690 V rated value at 690 V rated value at 690 V rated value at 1000 V rated value at AC-3a up to 690 V rated value at AC-5a up to 690 V rated value at AC-5a up to 400 V rated value at AC-5a up to 230 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to	— up to 690 V at ambient temperature 60 °C rated	300 A
value       • at AC-3         — at 400 V rated value       265 A         — at 690 V rated value       265 A         — at 1000 V rated value       95 A         • at AC-3e       — at 400 V rated value         — at 500 V rated value       265 A         — at 500 V rated value       265 A         — at 690 V rated value       265 A         — at 1000 V rated value       285 A         — at 1000 V rated value       230 A         • at AC-4 at 400 V rated value       230 A         • at AC-5a up to 690 V rated value       290 A         • at AC-5b up to 400 V rated value       219 A         • at AC-6a       — up to 230 V for current peak value n=20 rated value       265 A         — up to 900 V for current peak value n=20 rated value       265 A         — up to 1000 V for current peak value n=20 rated value       265 A         — up to 1000 V for current peak value n=20 rated value       265 A         — up to 230 V for current peak value n=20 rated value       265 A         — up to 1000 V for current peak value n=30 rated value       95 A         • at AC-6a       — up to 230 V for current peak value n=30 rated value       184 A         — up to 1000 V for current peak value n=30 rated value       184 A         — up to 1000 V for current peak value n=30 rate		150 A
- at 400 V rated value	value	150 A
- at 500 V rated value 265 A - at 690 V rated value 95 A  • at AC-3e  - at 400 V rated value 265 A - at 500 V rated value 265 A - at 690 V rated value 265 A - at 1000 V rated value 265 A - at 1000 V rated value 295 A  • at AC-4 at 400 V rated value 290 A • at AC-5 aup to 690 V rated value 219 A • at AC-5a - up to 230 V for current peak value n=20 rated value 265 A - up to 500 V for current peak value n=20 rated value 265 A - up to 500 V for current peak value n=20 rated value 265 A - up to 1000 V for current peak value n=20 rated value 265 A - up to 1000 V for current peak value n=20 rated value 265 A - up to 500 V for current peak value n=20 rated value 265 A - up to 500 V for current peak value n=30 rated value 265 A - up to 500 V for current peak value n=30 rated value 265 A - up to 500 V for current peak value n=30 rated value 265 A - up to 500 V for current peak value n=30 rated value 265 A - up to 500 V for current peak value n=30 rated value 265 A - up to 500 V for current peak value n=30 rated value 265 A - up to 500 V for current peak value n=30 rated value 265 A - up to 500 V for current peak value n=30 rated value 265 A - up to 500 V for current peak value n=30 rated value 265 A - up to 500 V for current peak value n=30 rated value 265 A - up to 500 V for current peak value n=30 rated value 265 A - up to 500 V for current peak value n=30 rated value 265 A - up to 500 V for current peak value n=30 rated value 265 A - up to 500 V for current peak value n=30 rated value 265 A - up to 500 V for current peak value n=30 rated value 30 rated 40 rate 30 rated 40 rate 30	• at AC-3	
at 690 V rated value at 1000 V rated value 95 A  • at AC-3e  at 400 V rated value 265 A  at 500 V rated value 265 A  at 690 V rated value 265 A  at 690 V rated value 265 A  at 1000 V rated value 95 A  • at AC-4 at 400 V rated value 95 A  • at AC-5a up to 690 V rated value 290 A  • at AC-5b up to 400 V rated value 219 A  • at AC-6a  up to 230 V for current peak value n=20 rated value 265 A  up to 500 V for current peak value n=20 rated value 265 A  up to 690 V for current peak value n=20 rated value 265 A  up to 1000 V for current peak value n=20 rated value 265 A  up to 1000 V for current peak value n=20 rated value 265 A  up to 1000 V for current peak value n=20 rated value 265 A  up to 1000 V for current peak value n=20 rated value 265 A  up to 230 V for current peak value n=20 rated value 265 A  up to 500 V for current peak value n=30 rated value 265 A  up to 500 V for current peak value n=30 rated value 265 A  up to 500 V for current peak value n=30 rated value 265 A  up to 500 V for current peak value n=30 rated value 265 A  up to 500 V for current peak value n=30 rated value 265 A  up to 500 V for current peak value n=30 rated value 265 A  up to 500 V for current peak value n=30 rated value 265 A  up to 500 V for current peak value n=30 rated value 265 A  up to 500 V for current peak value n=30 rated value 265 A  up to 500 V for current peak value n=30 rated value 265 A  up to 500 V for current peak value n=30 rated value 265 A  up to 500 V for current peak value n=30 rated value 265 A  up to 500 V for current peak value n=30 rated value 265 A  up to 500 V for current peak value n=30 rated value 265 A  up to 500 V for current peak value n=30 rated value 265 A  up to 500 V for current peak value n=30 rated value 265 A  up to 500 V for current peak value n=30 rated value 265 A  up to 500 V for current peak value n=30 rated value 265 A  up to 500 V for current peak value 265 A  up to 500 V for current pea		
■ at AC-3e     ■ at 400 V rated value     ■ at 500 V rated value     □ at 500 V rated value     □ at 690 V rated value     □ at 1000 V rated value     □ at AC-4 at 400 V rated value     □ at AC-5a up to 690 V rated value     □ at AC-5b up to 400 V rated value     □ at AC-5b up to 230 V for current peak value n=20 rated value     □ up to 230 V for current peak value n=20 rated value     □ up to 500 V for current peak value n=20 rated value     □ up to 690 V for current peak value n=20 rated value     □ up to 1000 V for current peak value n=20 rated value     □ up to 230 V for current peak value n=20 rated value     □ up to 230 V for current peak value n=30 rated value     □ up to 500 V for current peak value n=30 rated value     □ up to 500 V for current peak value n=30 rated value     □ up to 500 V for current peak value n=30 rated value     □ up to 500 V for current peak value n=30 rated value     □ up to 500 V for current peak value n=30 rated value     □ up to 1000 V for current peak value n=30 rated value     □ up to 1000 V for current peak value n=30 rated value     □ up to 1000 V for current peak value n=30 rated value     □ up to 1000 V for current peak value n=30 rated value     □ up to 1000 V for current peak value n=30 rated value     □ up to 1000 V for current peak value n=30 rated value     □ up to 1000 V for current peak value n=30 rated value     □ up to 1000 V for current peak value n=30 rated value     □ up to 1000 V for current peak value n=30 rated value     □ up to 1000 V for current peak value n=30 rated value     □ up to 1000 V for current peak value n=30 rated value     □ up to 1000 V for current peak value n=30 rated value     □ up to 1000 V for current peak value n=30 rated value     □ up to 1000 V for current peak value n=30 rated value     □ up to 1000 V for current peak value n=30 rated value     □ up to 1000 V for current peak value n=30 rated value     □ up to 1000 V		
at AC-3e  — at 400 V rated value — at 500 V rated value — at 1000 V rated value  • at AC-5a up to 690 V rated value • at AC-5b up to 400 V rated value  • at AC-6a — up to 230 V for current peak value n=20 rated value — up to 500 V for current peak value n=20 rated value — up to 690 V for current peak value n=20 rated value — up to 1000 V for current peak value n=20 rated value — up to 1000 V for current peak value n=20 rated value — up to 1000 V for current peak value n=20 rated value — up to 500 V for current peak value n=20 rated value — up to 500 V for current peak value n=20 rated value — up to 500 V for current peak value n=30 rated value  • at AC-6a — up to 230 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value  minimum cross-section in main circuit at maximum AC-1 rated value  operational current for approx. 200000 operating cycles at		
- at 400 V rated value - at 500 V rated value 265 A - at 690 V rated value 265 A - at 1000 V rated value 95 A  • at AC-4 at 400 V rated value 95 A  • at AC-5a up to 690 V rated value 290 A • at AC-5b up to 400 V rated value 219 A  • at AC-6a  - up to 230 V for current peak value n=20 rated value - up to 500 V for current peak value n=20 rated value - up to 500 V for current peak value n=20 rated value - up to 500 V for current peak value n=20 rated value - up to 1000 V for current peak value n=20 rated value - up to 1000 V for current peak value n=20 rated value - up to 1000 V for current peak value n=30 rated value • at AC-6a - up to 400 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 1000 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 1000 V for current peak value n=30 rated value - up to 1000 V for current peak value n=30 rated value - up to 1000 V for current peak value n=30 rated value - up to 1000 V for current peak value n=30 rated value - up to 1000 V for current peak value n=30 rated value - up to 1000 V for current peak value n=30 rated value - up to 1000 V for current peak value n=30 rated value - up to 1000 V for current peak value n=30 rated value - up to 1000 V for current peak value n=30 rated value - up to 1000 V for current peak value n=30 rated value - up to 1000 V for current peak value n=30 rated value - up to 1000 V for current peak value n=30 rated value - up to 1000 V for current peak value n=30 rated value - up to 1000 V for current peak value n=30 rated value		95 A
- at 500 V rated value - at 690 V rated value - at 1000 V rated value 95 A  • at AC-4 at 400 V rated value 95 A  • at AC-5a up to 690 V rated value 200 A  • at AC-6a - up to 230 V for current peak value n=20 rated value - up to 500 V for current peak value n=20 rated value - up to 690 V for current peak value n=20 rated value - up to 1000 V for current peak value n=20 rated value - up to 1000 V for current peak value n=20 rated value - up to 500 V for current peak value n=20 rated value - up to 1000 V for current peak value n=20 rated value - up to 230 V for current peak value n=30 rated value • at AC-6a - up to 230 V for current peak value n=30 rated value - up to 400 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 1000 V for current peak value n=30 rated value - up to 1000 V for current peak value n=30 rated value - up to 1000 V for current peak value n=30 rated value - up to 1000 V for current peak value n=30 rated value - up to 1000 V for current peak value n=30 rated value - up to 1000 V for current peak value n=30 rated value - up to 1000 V for current peak value n=30 rated value - up to 1000 V for current peak value n=30 rated value - up to 1000 V for current peak value n=30 rated value - up to 1000 V for current peak value n=30 rated value - up to 1000 V for current peak value n=30 rated value - up to 1000 V for current peak value n=30 rated value - up to 1000 V for current peak value n=30 rated value - up to 1000 V for current peak value n=30 rated value		
- at 690 V rated value - at 1000 V rated value 95 A  • at AC-4 at 400 V rated value 230 A • at AC-5a up to 690 V rated value 290 A • at AC-5b up to 400 V rated value 219 A  • at AC-6a - up to 230 V for current peak value n=20 rated value - up to 400 V for current peak value n=20 rated value - up to 500 V for current peak value n=20 rated value - up to 1000 V for current peak value n=20 rated value - up to 1000 V for current peak value n=20 rated value - up to 1000 V for current peak value n=20 rated value - up to 1000 V for current peak value n=20 rated value - up to 230 V for current peak value n=20 rated value - up to 400 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 1000 V for current peak value n=30 rated value - up to 1000 V for current peak value n=30 rated value - up to 1000 V for current peak value n=30 rated value - up to 1000 V for current peak value n=30 rated value - up to 1000 V for current peak value n=30 rated value - up to 1000 V for current peak value n=30 rated value - up to 1000 V for current peak value n=30 rated value - up to 1000 V for current peak value n=30 rated value - up to 1000 V for current peak value n=30 rated value - up to 1000 V for current peak value n=30 rated value - up to 1000 V for current peak value n=30 rated value - up to 1000 V for current peak value n=30 rated value - up to 1000 V for current peak value n=30 rated value - up to 1000 V for current peak value n=30 rated value - up to 1000 V for current peak value n=30 rated value - up to 1000 V for current peak value n=30 rated value		
<ul> <li>at 1000 V rated value</li> <li>at AC-4 at 400 V rated value</li> <li>at AC-5a up to 690 V rated value</li> <li>at AC-5b up to 400 V rated value</li> <li>at AC-6a</li> <li>up to 230 V for current peak value n=20 rated value</li> <li>up to 500 V for current peak value n=20 rated value</li> <li>up to 500 V for current peak value n=20 rated value</li> <li>up to 690 V for current peak value n=20 rated value</li> <li>up to 1000 V for current peak value n=20 rated value</li> <li>up to 1000 V for current peak value n=20 rated value</li> <li>at AC-6a</li> <li>up to 230 V for current peak value n=30 rated value</li> <li>at AC-6a</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>at AC-6a</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 1000 V for current peak value n=30 rated value</li> <li>up to 1000 V for current peak value n=30 rated value</li> <li>184 A</li> <li>up to 1000 V for current peak value n=30 rated value</li> <li>184 A</li> <li>up to 1000 V for current peak value n=30 rated value</li> <li>185 mm²</li> </ul>		
<ul> <li>at AC-4 at 400 V rated value</li> <li>at AC-5a up to 690 V rated value</li> <li>at AC-5b up to 400 V rated value</li> <li>at AC-6a</li> <li>up to 230 V for current peak value n=20 rated value</li> <li>up to 500 V for current peak value n=20 rated value</li> <li>up to 690 V for current peak value n=20 rated value</li> <li>up to 1000 V for current peak value n=20 rated value</li> <li>up to 1000 V for current peak value n=20 rated value</li> <li>up to 1000 V for current peak value n=20 rated value</li> <li>up to 400 V for current peak value n=30 rated value</li> <li>at AC-6a</li> <li>up to 400 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 1000 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>184 A</li> <li>up to 1000 V for current peak value n=30 rated value</li> <li>184 A</li> <li>185 mm²</li> </ul>		
<ul> <li>at AC-5a up to 690 V rated value</li> <li>at AC-5b up to 400 V rated value</li> <li>at AC-6a</li> <li>— up to 230 V for current peak value n=20 rated value</li> <li>— up to 500 V for current peak value n=20 rated value</li> <li>— up to 690 V for current peak value n=20 rated value</li> <li>— up to 1000 V for current peak value n=20 rated value</li> <li>— up to 1000 V for current peak value n=20 rated value</li> <li>— up to 230 V for current peak value n=30 rated value</li> <li>— at AC-6a</li> <li>— up to 230 V for current peak value n=30 rated value</li> <li>— up to 500 V for current peak value n=30 rated value</li> <li>— up to 500 V for current peak value n=30 rated value</li> <li>— up to 690 V for current peak value n=30 rated value</li> <li>— up to 1000 V for current peak value n=30 rated value</li> <li>— up to 1000 V for current peak value n=30 rated value</li> <li>— up to 1000 V for current peak value n=30 rated value</li> <li>— up to 1000 V for current peak value n=30 rated value</li> <li>— up to 1000 V for current peak value n=30 rated value</li> <li>— up to 1000 V for current peak value n=30 rated value</li> <li>— up to 1000 V for current peak value n=30 rated value</li> <li>— up to 1000 V for current peak value n=30 rated value</li> <li>— up to 1000 V for current peak value n=30 rated value</li> <li>— up to 1000 V for current peak value n=30 rated value</li> <li>— up to 1000 V for current peak value n=30 rated value</li> <li>— up to 1000 V for current peak value n=30 rated value</li> <li>— up to 1000 V for current peak value n=30 rated value</li> <li>— up to 1000 V for current peak value n=30 rated value</li> <li>— up to 1000 V for current peak value n=30 rated value</li> <li>— up to 1000 V for current peak value n=30 rated value</li> <li>— up to 1000 V for current peak value n=30 rated value</li> <li>— up to 1000 V for current peak value n=30 rated value</li> <li>— up to 1000 V for current peak value n=30 rated value</li> <li>— up to 1000 V for current peak value n=30 rated value</li> <li>— u</li></ul>		
<ul> <li>at AC-5b up to 400 V rated value</li> <li>at AC-6a</li> <li>— up to 230 V for current peak value n=20 rated value</li> <li>— up to 400 V for current peak value n=20 rated value</li> <li>— up to 500 V for current peak value n=20 rated value</li> <li>— up to 690 V for current peak value n=20 rated value</li> <li>— up to 1000 V for current peak value n=20 rated value</li> <li>— up to 1000 V for current peak value n=20 rated value</li> <li>• at AC-6a</li> <li>— up to 230 V for current peak value n=30 rated value</li> <li>— up to 400 V for current peak value n=30 rated value</li> <li>— up to 500 V for current peak value n=30 rated value</li> <li>— up to 690 V for current peak value n=30 rated value</li> <li>— up to 1000 V for current peak value n=30 rated value</li> <li>— up to 1000 V for current peak value n=30 rated value</li> <li>— up to 1000 V for current peak value n=30 rated value</li> <li>— up to 1000 V for current peak value n=30 rated value</li> <li>— up to 1000 V for current peak value n=30 rated value</li> <li>— up to 1000 V for current peak value n=30 rated value</li> <li>— up to 1000 V for current peak value n=30 rated value</li> <li>— up to 1000 V for current peak value n=30 rated value</li> <li>— up to 1000 V for current peak value n=30 rated value</li> <li>— up to 1000 V for current peak value n=30 rated value</li> <li>— up to 1000 V for current peak value n=30 rated value</li> <li>— up to 1000 V for current peak value n=30 rated value</li> <li>— up to 1000 V for current peak value n=30 rated value</li> <li>— up to 1000 V for current peak value n=30 rated value</li> <li>— up to 1000 V for current peak value n=30 rated value</li> <li>— up to 1000 V for current peak value n=30 rated value</li> <li>— up to 1000 V for current peak value n=30 rated value</li> <li>— up to 1000 V for current peak value n=30 rated value</li> <li>— up to 1000 V for current peak value n=30 rated value</li> <li>— up to 1000 V for current peak value n=30 rated value</li> <li>— up to 1000 V for current peak value n=30 ra</li></ul>		
at AC-6a     — up to 230 V for current peak value n=20 rated value     — up to 400 V for current peak value n=20 rated value     — up to 500 V for current peak value n=20 rated value     — up to 690 V for current peak value n=20 rated value     — up to 1000 V for current peak value n=20 rated value     — up to 1000 V for current peak value n=20 rated value     • at AC-6a     — up to 230 V for current peak value n=30 rated value     — up to 400 V for current peak value n=30 rated value     — up to 500 V for current peak value n=30 rated value     — up to 690 V for current peak value n=30 rated value     — up to 1000 V for current peak value n=30 rated value     — up to 1000 V for current peak value n=30 rated value     — up to 1000 V for current peak value n=30 rated value     — up to 1000 V for current peak value n=30 rated value     — up to 1000 V for current peak value n=30 rated value     — up to 1000 V for current peak value n=30 rated value     — up to 1000 V for current peak value n=30 rated value     — up to 1000 V for current peak value n=30 rated value     — up to 1000 V for current peak value n=30 rated value     — up to 1000 V for current peak value n=30 rated value     — up to 1000 V for current peak value n=30 rated value      — up to 1000 V for current peak value n=30 rated value     — up to 1000 V for current peak value n=30 rated value	•	
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- up to 400 V for current peak value n=20 rated value - up to 500 V for current peak value n=20 rated value - up to 690 V for current peak value n=20 rated value - up to 1000 V for current peak value n=20 rated value - up to 1000 V for current peak value n=20 rated value • at AC-6a - up to 230 V for current peak value n=30 rated value - up to 400 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 1000 V for current peak value n=30 rated value - up to 1000 V for current peak value n=30 rated value - up to 1000 V for current peak value n=30 rated value - up to 1000 V for current peak value n=30 rated value - up to 1000 V for current peak value n=30 rated value - up to 1000 V for current peak value n=30 rated value - up to 1000 V for current peak value n=30 rated value - up to 1000 V for current peak value n=30 rated value - up to 1000 V for current peak value n=30 rated value - up to 1000 V for current peak value n=30 rated value - up to 1000 V for current peak value n=30 rated value - up to 1000 V for current peak value n=30 rated value - up to 1000 V for current peak value n=30 rated value - up to 1000 V for current peak value n=30 rated value - up to 1000 V for current peak value n=30 rated value		265 A
<ul> <li>up to 500 V for current peak value n=20 rated value</li> <li>up to 690 V for current peak value n=20 rated value</li> <li>up to 1000 V for current peak value n=20 rated value</li> <li>at AC-6a</li> <li>up to 230 V for current peak value n=30 rated value</li> <li>up to 400 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 1000 V for current peak value n=30 rated value</li> <li>184 A</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>minimum cross-section in main circuit at maximum AC-1 rated value</li> <li>operational current for approx. 200000 operating cycles at</li> </ul>		
<ul> <li>up to 690 V for current peak value n=20 rated value</li> <li>up to 1000 V for current peak value n=20 rated value</li> <li>at AC-6a</li> <li>up to 230 V for current peak value n=30 rated value</li> <li>up to 400 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 1000 V for current peak value n=30 rated value</li> <li>minimum cross-section in main circuit at maximum AC-1 rated value</li> <li>operational current for approx. 200000 operating cycles at</li> </ul>	·	
— up to 1000 V for current peak value n=20 rated value  ■ at AC-6a  — up to 230 V for current peak value n=30 rated value — up to 400 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 1000 V for current peak value n=30 rated value — up to 1000 V for current peak value n=30 rated value minimum cross-section in main circuit at maximum AC-1 rated value  operational current for approx. 200000 operating cycles at		
at AC-6a  — up to 230 V for current peak value n=30 rated value — up to 400 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 1000 V for current peak value n=30 rated value — up to 1000 V for current peak value n=30 rated value  minimum cross-section in main circuit at maximum AC-1 rated value  operational current for approx. 200000 operating cycles at	— up to 1000 V for current peak value n=20 rated	
- up to 230 V for current peak value n=30 rated value - up to 400 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 1000 V for current peak value n=30 rated value - up to 1000 V for current peak value n=30 rated value - up to 1000 V for current peak value n=30 rated value - up to 1000 V for current peak value n=30 rated value - up to 1000 V for current peak value n=30 rated value - up to 1000 V for current peak value n=30 rated value - up to 1000 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 1000 V for cu		
<ul> <li>up to 400 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 1000 V for current peak value n=30 rated value</li> <li>up to 1000 V for current peak value n=30 rated value</li> <li>minimum cross-section in main circuit at maximum AC-1 rated value</li> <li>operational current for approx. 200000 operating cycles at</li> </ul>		184 A
— up to 500 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 1000 V for current peak value n=30 rated value  minimum cross-section in main circuit at maximum AC-1 rated value  operational current for approx. 200000 operating cycles at		
— up to 690 V for current peak value n=30 rated value — up to 1000 V for current peak value n=30 rated value  minimum cross-section in main circuit at maximum AC-1 rated value  operational current for approx. 200000 operating cycles at	·	
— up to 1000 V for current peak value n=30 rated value  minimum cross-section in main circuit at maximum AC-1 rated value  operational current for approx. 200000 operating cycles at		
value operational current for approx. 200000 operating cycles at	— up to 1000 V for current peak value n=30 rated	
		185 mm²

• at 400 V rated value	117 A
at 690 V rated value	105 A
operational current	
at 1 current path at DC-1	
— at 24 V rated value	300 A
— at 60 V rated value	300 A
— at 110 V rated value	33 A
— at 220 V rated value	3.8 A
— at 440 V rated value	0.9 A
— at 600 V rated value	0.6 A
<ul> <li>with 2 current paths in series at DC-1</li> </ul>	
— at 24 V rated value	300 A
— at 60 V rated value	300 A
— at 110 V rated value	300 A
— at 220 V rated value	300 A
— at 440 V rated value	4 A
— at 600 V rated value	2 A
<ul> <li>with 3 current paths in series at DC-1</li> </ul>	
— at 24 V rated value	300 A
— at 60 V rated value	300 A
— at 110 V rated value	300 A
— at 220 V rated value	300 A
— at 440 V rated value	11 A
— at 600 V rated value	5.2 A
at 1 current path at DC-3 at DC-5	0.27
— at 24 V rated value	300 A
— at 60 V rated value	11 A
— at 110 V rated value	3 A
	0.6 A
— at 220 V rated value	
— at 440 V rated value	0.18 A
— at 600 V rated value	0.125 A
with 2 current paths in series at DC-3 at DC-5	200.4
— at 24 V rated value	300 A
— at 60 V rated value	300 A
— at 110 V rated value	300 A
— at 220 V rated value	2.5 A
— at 440 V rated value	0.65 A
— at 600 V rated value	0.37 A
<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	300 A
— at 60 V rated value	300 A
— at 110 V rated value	300 A
— at 220 V rated value	300 A
— at 440 V rated value	1.4 A
— at 600 V rated value	0.75 A
operating power	
• at AC-3	
— at 230 V rated value	75 kW
— at 400 V rated value	132 kW
— at 500 V rated value	160 kW
— at 690 V rated value	250 kW
— at 1000 V rated value	132 kW
• at AC-3e	
— at 230 V rated value	75 kW
— at 400 V rated value	132 kW
— at 500 V rated value	160 kW
— at 690 V rated value  — at 690 V rated value	250 kW
— at 1000 V rated value	132 kW
operating power for approx. 200000 operating cycles at AC-	

at 690 V rated value	102 kW
operating apparent power at AC-6a	
• up to 230 V for current peak value n=20 rated value	100 kVA
<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	180 kVA
• up to 500 V for current peak value n=20 rated value	220 kVA
<ul> <li>up to 690 V for current peak value n=20 rated value</li> </ul>	310 kVA
<ul> <li>up to 1000 V for current peak value n=20 rated value</li> </ul>	160 kVA
operating apparent power at AC-6a	
• up to 230 V for current peak value n=30 rated value	70 kVA
• up to 400 V for current peak value n=30 rated value	120 kVA
• up to 500 V for current peak value n=30 rated value	150 kVA
• up to 690 V for current peak value n=30 rated value	220 kVA
• up to 1000 V for current peak value n=30 rated value	160 kVA
short-time withstand current in cold operating state up to 40 $^{\circ}\text{C}$	
<ul> <li>limited to 1 s switching at zero current maximum</li> </ul>	4 880 A; Use minimum cross-section acc. to AC-1 rated value
limited to 5 s switching at zero current maximum	4 045 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	2 785 A; Use minimum cross-section acc. to AC-1 rated value
limited to 30 s switching at zero current maximum	1 664 A; Use minimum cross-section acc. to AC-1 rated value
limited to 60 s switching at zero current maximum	1 276 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at AC	2 000 1/h
• at DC	2 000 1/h
operating frequency	
• at AC-1 maximum	800 1/h
at AC-2 maximum	250 1/h
• at AC-3 maximum	500 1/h
• at AC-3e	
— maximum	500 1/h
at AC-4 maximum	130 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
type of voltage of the control supply voltage	AC/DC
type of voltage of the control supply voltage control supply voltage at AC  • at 50 Hz rated value	
control supply voltage at AC  • at 50 Hz rated value	440 480 V
control supply voltage at AC  • at 50 Hz rated value  • at 60 Hz rated value	440 480 V 440 480 V
control supply voltage at AC  • at 50 Hz rated value  • at 60 Hz rated value  control supply voltage at DC rated value  operating range factor control supply voltage rated value of	440 480 V
control supply voltage at AC  • at 50 Hz rated value  • at 60 Hz rated value  control supply voltage at DC rated value  operating range factor control supply voltage rated value of magnet coil at DC	440 480 V 440 480 V 440 480 V
control supply voltage at AC  • at 50 Hz rated value  • at 60 Hz rated value  control supply voltage at DC rated value  operating range factor control supply voltage rated value of magnet coil at DC  • initial value	440 480 V 440 480 V 440 480 V
control supply voltage at AC  • at 50 Hz rated value  • at 60 Hz rated value  control supply voltage at DC rated value  operating range factor control supply voltage rated value of magnet coil at DC	440 480 V 440 480 V 440 480 V
control supply voltage at AC  • at 50 Hz rated value  • at 60 Hz rated value  control supply voltage at DC rated value  operating range factor control supply voltage rated value of magnet coil at DC  • initial value  • full-scale value  operating range factor control supply voltage rated value of	440 480 V 440 480 V 440 480 V
control supply voltage at AC  • at 50 Hz rated value  • at 60 Hz rated value  control supply voltage at DC rated value  operating range factor control supply voltage rated value of magnet coil at DC  • initial value  • full-scale value  operating range factor control supply voltage rated value of magnet coil at AC	440 480 V 440 480 V 440 480 V
control supply voltage at AC  • at 50 Hz rated value  • at 60 Hz rated value  control supply voltage at DC rated value  operating range factor control supply voltage rated value of magnet coil at DC  • initial value  • full-scale value  operating range factor control supply voltage rated value of magnet coil at AC  • at 50 Hz  • at 60 Hz	440 480 V 440 480 V 440 480 V 0.8 1.1
control supply voltage at AC  • at 50 Hz rated value  • at 60 Hz rated value  control supply voltage at DC rated value  operating range factor control supply voltage rated value of magnet coil at DC  • initial value  • full-scale value  operating range factor control supply voltage rated value of magnet coil at AC  • at 50 Hz  • at 60 Hz  design of the surge suppressor	440 480 V 440 480 V 440 480 V 0.8 1.1
control supply voltage at AC  • at 50 Hz rated value  • at 60 Hz rated value  control supply voltage at DC rated value  operating range factor control supply voltage rated value of magnet coil at DC  • initial value  • full-scale value  operating range factor control supply voltage rated value of magnet coil at AC  • at 50 Hz  • at 60 Hz  design of the surge suppressor  apparent pick-up power	440 480 V 440 480 V 440 480 V 0.8 1.1
control supply voltage at AC  • at 50 Hz rated value  • at 60 Hz rated value  control supply voltage at DC rated value  operating range factor control supply voltage rated value of magnet coil at DC  • initial value  • full-scale value  operating range factor control supply voltage rated value of magnet coil at AC  • at 50 Hz  • at 60 Hz  design of the surge suppressor	440 480 V 440 480 V 440 480 V 0.8 1.1
control supply voltage at AC  • at 50 Hz rated value  • at 60 Hz rated value  control supply voltage at DC rated value  operating range factor control supply voltage rated value of magnet coil at DC  • initial value  • full-scale value  operating range factor control supply voltage rated value of magnet coil at AC  • at 50 Hz  • at 60 Hz  design of the surge suppressor  apparent pick-up power  • at minimum rated control supply voltage at AC	440 480 V 440 480 V 0.8 1.1 0.8 1.1 0.8 1.1 with varistor
control supply voltage at AC  • at 50 Hz rated value  • at 60 Hz rated value  control supply voltage at DC rated value  operating range factor control supply voltage rated value of magnet coil at DC  • initial value  • full-scale value  operating range factor control supply voltage rated value of magnet coil at AC  • at 50 Hz  • at 60 Hz  design of the surge suppressor  apparent pick-up power  • at minimum rated control supply voltage at AC  — at 50 Hz  — at 60 Hz	440 480 V 440 480 V 0.8 1.1 0.8 1.1 0.8 1.1 with varistor
control supply voltage at AC  • at 50 Hz rated value  • at 60 Hz rated value  control supply voltage at DC rated value  operating range factor control supply voltage rated value of magnet coil at DC  • initial value  • full-scale value  operating range factor control supply voltage rated value of magnet coil at AC  • at 50 Hz  • at 60 Hz  design of the surge suppressor  apparent pick-up power  • at minimum rated control supply voltage at AC  — at 50 Hz	440 480 V 440 480 V 0.8 1.1 0.8 1.1 0.8 1.1 with varistor
control supply voltage at AC  • at 50 Hz rated value  • at 60 Hz rated value  control supply voltage at DC rated value  operating range factor control supply voltage rated value of magnet coil at DC  • initial value  • full-scale value  operating range factor control supply voltage rated value of magnet coil at AC  • at 50 Hz  • at 60 Hz  design of the surge suppressor  apparent pick-up power  • at minimum rated control supply voltage at AC  — at 50 Hz  — at 60 Hz  • at maximum rated control supply voltage at AC	440 480 V 440 480 V 0.8 1.1 0.8 1.1 0.8 1.1 with varistor 490 VA 490 VA
control supply voltage at AC  • at 50 Hz rated value  • at 60 Hz rated value  control supply voltage at DC rated value  operating range factor control supply voltage rated value of magnet coil at DC  • initial value  • full-scale value  operating range factor control supply voltage rated value of magnet coil at AC  • at 50 Hz  • at 60 Hz  design of the surge suppressor  apparent pick-up power  • at minimum rated control supply voltage at AC  — at 50 Hz  — at 60 Hz  • at maximum rated control supply voltage at AC  — at 60 Hz  — at 60 Hz  — at 50 Hz	440 480 V 440 480 V 0.8 1.1 0.8 1.1 0.8 1.1 with varistor 490 VA 490 VA 590 VA
control supply voltage at AC  • at 50 Hz rated value  • at 60 Hz rated value  control supply voltage at DC rated value  operating range factor control supply voltage rated value of magnet coil at DC  • initial value  • full-scale value  operating range factor control supply voltage rated value of magnet coil at AC  • at 50 Hz  • at 60 Hz  design of the surge suppressor  apparent pick-up power  • at minimum rated control supply voltage at AC  — at 50 Hz  — at 60 Hz  • at maximum rated control supply voltage at AC  — at 60 Hz	440 480 V 440 480 V 0.8 1.1 0.8 1.1 0.8 1.1 with varistor 490 VA 490 VA 590 VA
control supply voltage at AC  • at 50 Hz rated value  • at 60 Hz rated value  control supply voltage at DC rated value  operating range factor control supply voltage rated value of magnet coil at DC  • initial value  • full-scale value  operating range factor control supply voltage rated value of magnet coil at AC  • at 50 Hz  • at 60 Hz  design of the surge suppressor  apparent pick-up power  • at minimum rated control supply voltage at AC  — at 50 Hz  — at 60 Hz  • at maximum rated control supply voltage at AC  — at 50 Hz  at 60 Hz  at 50 Hz  at 50 Hz  apparent pick-up power of magnet coil at AC	440 480 V 440 480 V 0.8 1.1 0.8 1.1 0.8 1.1 with varistor 490 VA 490 VA 590 VA 590 VA
control supply voltage at AC  • at 50 Hz rated value  • at 60 Hz rated value  control supply voltage at DC rated value  operating range factor control supply voltage rated value of magnet coil at DC  • initial value • full-scale value  operating range factor control supply voltage rated value of magnet coil at AC  • at 50 Hz • at 60 Hz  design of the surge suppressor  apparent pick-up power  • at minimum rated control supply voltage at AC  — at 50 Hz  — at 60 Hz  • at maximum rated control supply voltage at AC  — at 50 Hz  apparent pick-up power of magnet coil at AC  • at 50 Hz  • at 60 Hz  • at 60 Hz  • at 60 Hz  • at 60 Hz	440 480 V 440 480 V 0.8 1.1 0.8 1.1 0.8 1.1 with varistor 490 VA 490 VA 590 VA
control supply voltage at AC  • at 50 Hz rated value  • at 60 Hz rated value  control supply voltage at DC rated value  operating range factor control supply voltage rated value of magnet coil at DC  • initial value  • full-scale value  operating range factor control supply voltage rated value of magnet coil at AC  • at 50 Hz  • at 60 Hz  design of the surge suppressor  apparent pick-up power  • at minimum rated control supply voltage at AC  — at 50 Hz  — at 60 Hz  • at maximum rated control supply voltage at AC  — at 50 Hz  • at maximum rated control supply voltage at AC  — at 60 Hz  • at 60 Hz  apparent pick-up power of magnet coil at AC  • at 50 Hz  • at 60 Hz  • at 60 Hz	440 480 V 440 480 V 0.8 1.1 0.8 1.1 0.8 1.1 with varistor 490 VA 490 VA 590 VA 590 VA 590 VA
control supply voltage at AC  • at 50 Hz rated value  • at 60 Hz rated value  control supply voltage at DC rated value  operating range factor control supply voltage rated value of magnet coil at DC  • initial value  • full-scale value  operating range factor control supply voltage rated value of magnet coil at AC  • at 50 Hz  • at 60 Hz  design of the surge suppressor  apparent pick-up power  • at minimum rated control supply voltage at AC  — at 50 Hz  — at 60 Hz  • at maximum rated control supply voltage at AC  — at 50 Hz  • at maximum rated control supply voltage at AC  — at 60 Hz  • at 50 Hz  inductive power factor with closing power of the coil  • at 50 Hz	440 480 V 440 480 V 440 480 V 0.8 1.1 0.8 1.1 0.8 1.1 with varistor 490 VA 490 VA 590 VA 590 VA 590 VA
control supply voltage at AC  • at 50 Hz rated value • at 60 Hz rated value  control supply voltage at DC rated value  operating range factor control supply voltage rated value of magnet coil at DC  • initial value • full-scale value  operating range factor control supply voltage rated value of magnet coil at AC  • at 50 Hz • at 60 Hz  design of the surge suppressor  apparent pick-up power  • at minimum rated control supply voltage at AC  — at 50 Hz  — at 60 Hz  • at maximum rated control supply voltage at AC  — at 50 Hz  • at 50 Hz  apparent pick-up power of magnet coil at AC  • at 50 Hz  • at 60 Hz  • at 60 Hz  • at 60 Hz  inductive power factor with closing power of the coil  • at 50 Hz  • at 60 Hz	440 480 V 440 480 V 0.8 1.1 0.8 1.1 0.8 1.1 with varistor 490 VA 490 VA 590 VA 590 VA 590 VA
control supply voltage at AC  • at 50 Hz rated value • at 60 Hz rated value  control supply voltage at DC rated value  operating range factor control supply voltage rated value of magnet coil at DC  • initial value • full-scale value  operating range factor control supply voltage rated value of magnet coil at AC  • at 50 Hz • at 60 Hz  design of the surge suppressor  apparent pick-up power  • at minimum rated control supply voltage at AC  — at 50 Hz  — at 60 Hz  • at maximum rated control supply voltage at AC  — at 50 Hz  • at maximum rated control supply voltage at AC  — at 60 Hz  inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz • at 60 Hz • at 60 Hz	440 480 V 440 480 V 440 480 V  0.8 1.1  0.8 1.1 0.8 1.1 with varistor  490 VA 490 VA 590 VA 590 VA 590 VA 590 VA 0.9 0.9
control supply voltage at AC  • at 50 Hz rated value  • at 60 Hz rated value  control supply voltage at DC rated value  operating range factor control supply voltage rated value of magnet coil at DC  • initial value • full-scale value  operating range factor control supply voltage rated value of magnet coil at AC  • at 50 Hz • at 60 Hz  design of the surge suppressor  apparent pick-up power  • at minimum rated control supply voltage at AC  — at 50 Hz — at 60 Hz  • at maximum rated control supply voltage at AC  — at 50 Hz  • at maximum rated control supply voltage at AC  inductive power of magnet coil at AC  • at 50 Hz • at 60 Hz  • at 60 Hz  • at 60 Hz • at 60 Hz  • at 60 Hz  • at 60 Hz  • at 60 Hz  • at 60 Hz  • at 60 Hz  • at 60 Hz  • at 60 Hz  • at 60 Hz  • at 60 Hz  • at 60 Hz  • at 60 Hz  • at 60 Hz  • at 60 Hz	440 480 V 440 480 V  0.8 1.1  0.8 1.1 0.8 1.1 with varistor  490 VA 490 VA 590 VA 590 VA 590 VA 590 VA 590 VA 590 VA 6.1 VA
control supply voltage at AC  • at 50 Hz rated value • at 60 Hz rated value  control supply voltage at DC rated value  operating range factor control supply voltage rated value of magnet coil at DC  • initial value • full-scale value  operating range factor control supply voltage rated value of magnet coil at AC  • at 50 Hz • at 60 Hz  design of the surge suppressor  apparent pick-up power  • at minimum rated control supply voltage at AC  — at 50 Hz  — at 60 Hz  • at maximum rated control supply voltage at AC  — at 50 Hz  • at maximum rated control supply voltage at AC  — at 60 Hz  inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz • at 60 Hz • at 60 Hz	440 480 V 440 480 V 440 480 V  0.8 1.1  0.8 1.1 0.8 1.1 with varistor  490 VA 490 VA 590 VA 590 VA 590 VA 590 VA 0.9 0.9

at minimum rated control supply voltage at AC	
— at 50 Hz	5.6 VA
— at 50 Hz	5.6 VA
at maximum rated control supply voltage at AC	0.0 VA
— at 50 Hz	6.7 VA
— at 60 Hz	6.7 VA
inductive power factor with the holding power of the coil	0.7 VA
at 50 Hz	0.9
• at 50 Hz	0.9
	650 W
closing power of magnet coil at DC holding power of magnet coil at DC	7.4 W
closing delay	7.4 VV
• at AC	30 95 ms
• at DC	30 95 ms
opening delay	30 90 IIIS
• at AC	40 80 ms
• at DC	40 80 ms
	10 15 ms
arcing time  control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	Otuniduru AT - AZ
number of NC contacts for auxiliary contacts instantaneous	2
contact	
number of NO contacts for auxiliary contacts instantaneous contact	2
operational current at AC-12 maximum	10 A
operational current at AC-15	
at 230 V rated value	6 A
• at 400 V rated value	3 A
at 500 V rated value	2 A
at 690 V rated value	1 A
operational current at DC-12	
at 24 V rated value	10 A
at 48 V rated value	6 A
at 60 V rated value	6 A
• at 110 V rated value	3 A
• at 125 V rated value	2 A
at 220 V rated value	1 A
at 600 V rated value	0.15 A
operational current at DC-13	
at 24 V rated value	10 A
at 48 V rated value	2 A
at 60 V rated value	2 A
at 110 V rated value	1 A
at 125 V rated value	0.9 A
at 220 V rated value	0.3 A
at 600 V rated value	0.1 A
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	240 A
at 600 V rated value	242 A
yielded mechanical performance [hp]	
• for 3-phase AC motor	
— at 200/208 V rated value	75 hp
— at 220/230 V rated value	100 hp
— at 460/480 V rated value	200 hp
— at 575/600 V rated value	250 hp
contact rating of auxiliary contacts according to UL	A600 / Q600
Short-circuit protection	0.1-1.15.404.0414
design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V	C characteristic: 10 A; 0.4 kA

design of the fuse link	
<ul> <li>for short-circuit protection of the main circuit</li> </ul>	
<ul> <li>— with type of coordination 1 required</li> </ul>	gG: 500 A (690 V, 100 kA)
— with type of coordination 2 required	gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA)
• for short-circuit protection of the auxiliary switch required	gG: 10 A (500 V, 1 kA)
Installation/ mounting/ dimensions	
mounting position	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back
fastening method side-by-side mounting	Yes
fastening method	screw fixing
height	210 mm
width	145 mm
depth	202 mm
required spacing	
<ul> <li>with side-by-side mounting</li> </ul>	
— forwards	20 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
• for grounded parts	
— forwards	20 mm
— upwards	10 mm
— at the side	10 mm
— downwards	10 mm
• for live parts	
— forwards	20 mm
— upwards	10 mm
— downwards	10 mm
— at the side	10 mm
Connections/ Terminals	
type of electrical connection	
for main current circuit	Connection bar
for auxiliary and control circuit	spring-loaded terminals
at contactor for auxiliary contacts	Spring-type terminals
of magnet coil	Spring-type terminals  Spring-type terminals
width of connection bar	25 mm
thickness of connection bar	6 mm
diameter of holes	11 mm
number of holes	1
	1
type of connectable conductor cross-sections  • for AWG cables for main contacts	2/0 500 kcmil
	2/0 500 kcmil
connectable conductor cross-section for main contacts	70 240 mm²
stranded  connectable conductor cross section for auxiliary contacts.	70 240 mm²
connectable conductor cross-section for auxiliary contacts	0.25 2.5 mm²
solid or stranded     finely stranded with earn and processing.	0.25 2.5 mm <sup>2</sup>
finely stranded with core end processing     finely stranded without core and processing	0.25 1.5 mm <sup>2</sup>
finely stranded without core end processing	0.25 2.5 mm <sup>2</sup>
type of connectable conductor cross-sections	
• for auxiliary contacts	0(0.05 0.5
— solid	2x (0.25 2.5 mm²)
— solid or stranded	2x (0,25 2,5 mm²)
— finely stranded with core end processing	2x (0.25 1.5 mm²)
— finely stranded without core end processing	2x (0.25 2.5 mm²)
for AWG cables for auxiliary contacts	2x (24 14)
AWG number as coded connectable conductor cross section for auxiliary contacts	24 14
Safety related data	
product function	
	Yes

suitable for safety function	Yes
suitability for use safety-related switching OFF	Yes
service life maximum	20 a
test wear-related service life necessary	Yes
proportion of dangerous failures	
<ul> <li>with low demand rate according to SN 31920</li> </ul>	40 %
<ul> <li>with high demand rate according to SN 31920</li> </ul>	73 %
B10 value with high demand rate according to SN 31920	1 000 000
failure rate [FIT] with low demand rate according to SN 31920	100 FIT
ISO 13849	
device type according to ISO 13849-1	3
overdimensioning according to ISO 13849-2 necessary	Yes
IEC 61508	
safety device type according to IEC 61508-2	Type A
Electrical Safety	
protection class IP on the front according to IEC 60529	IP00; IP20 with box terminal/cover
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front with box terminal/cover
Approvals Certificates	
General Product Approval	









<u>KC</u>



EMV Functional Saftey Test Certificates Maritime application



Type Examination Certificate

Type Test Certificates/Test Report

Special Test Certificate





Maritime application







**Miscellaneous** 

other



Confirmation

other Railway Environment

**Miscellaneous** 

Confirmation

Special Test Certificate







Environmental Confirmations

## Further information

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information for data generation and storage

https://support.industry.siemens.com/cs/ww/en/view/109995012

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT1065-2AR36

Cax online generator

https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1065-2AR36

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

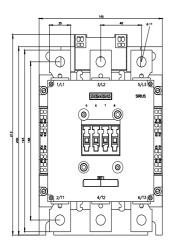
https://support.industry.siemens.com/cs/ww/en/ps/3RT1065-2AR36

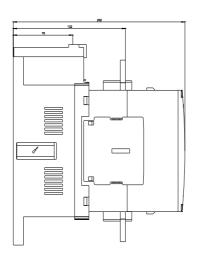
 $Image\ database\ (product\ images,\ 2D\ dimension\ drawings,\ 3D\ models,\ device\ circuit\ diagrams,\ EPLAN\ macros,\ ...)$ 

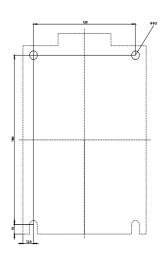
 $\underline{\text{https://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT1065-2AR36\&lang=enderselements.com/bilddb/cax\_de.aspx?mlfb=3RT1065-2AR36\&lang=enderselements.com/bilddb/cax\_de.aspx?mlfb=3RT1065-2AR36\&lang=enderselements.com/bilddb/cax\_de.aspx?mlfb=3RT1065-2AR36\&lang=enderselements.com/bilddb/cax\_de.aspx?mlfb=3RT1065-2AR36\&lang=enderselements.com/bilddb/cax\_de.aspx?mlfb=3RT1065-2AR36\&lang=enderselements.com/bilddb/cax\_de.aspx?mlfb=3RT1065-2AR36\&lang=enderselements.com/bilddb/cax\_de.aspx?mlfb=3RT1065-2AR36\&lang=enderselements.com/bilddb/cax\_de.aspx?mlfb=3RT1065-2AR36\&lang=enderselements.com/bilddb/cax\_de.aspx?mlfb=3RT1065-2AR36\&lang=enderselements.com/bilddb/cax\_de.aspx?mlfb=3RT1065-2AR36\&lang=enderselements.com/bilddb/cax\_de.aspx?mlfb=3RT1065-2AR36\&lang=enderselements.com/bilddb/cax\_de.aspx?mlfb=3RT1065-2AR36\&lang=enderselements.com/bilddb/cax\_de.aspx?mlfb=3RT1065-2AR36\&lang=enderselements.com/bilddb/cax\_de.aspx.com/bilddb/cax_de.aspx.com/bilddb/cax$ 

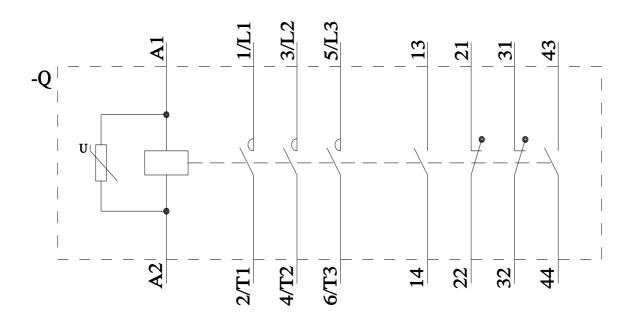
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT1065-2AR36/char









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