SIEMENS

Data sheet

3RT1065-6NF36



power contactor, AC-3e/AC-3 265 A, 132 kW / 400 V AC (50-60 Hz) / DC Uc: 96-127 V PLC input 24 V DC 3-pole, auxiliary contacts 2 NO + 2 NC drive: electronic main circuit: busbar control and auxiliary circuit: screw terminal

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT1
General technical data	
size of contactor	S10
	510
product extension	No
function module for communication	No
auxiliary switch	Yes
power loss [W] for rated value of the current	
at AC in hot operating state	54 W
at AC in hot operating state per pole	18 W
without load current share typical	3.4 W
type of calculation of power loss depending on pole	quadratic
insulation voltage	
 of main circuit with degree of pollution 3 rated value 	1 000 V
 of auxiliary circuit with degree of pollution 3 rated value 	500 V
surge voltage resistance	
 of main circuit rated value 	8 kV
 of auxiliary circuit rated value 	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
 of the contactor with added electronically optimized auxiliary switch block typical 	5 000 000
of the contactor with added auxiliary switch block typical	10 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	
SVHC substance name	Lead - 7439-92-1
Weight	6.711 kg
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
during operation	-25 +60 °C
during storage	-55 +80 °C

relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage	
at AC-3 rated value maximum	1 000 V
at AC-3e rated value maximum	1 000 V
operational current	
 at AC-1 at 400 V at ambient temperature 40 °C rated 	330 A
value	
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	330 A
— up to 690 V at ambient temperature 60 °C rated value	300 A
— up to 1000 V at ambient temperature 40 °C rated value	150 A
— up to 1000 V at ambient temperature 60 °C rated value	150 A
• at AC-3	
— 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	95 A
• at AC-3e	265 A
— at 400 V rated value	265 A
— at 500 V rated value — at 690 V rated value	265 A
— 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	265 A
— up to 400 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 	95 A
• at AC-6a	
— up to 230 V for current peak value n=30 rated value	184 A
— up to 400 V for current peak value n=30 rated value	184 A
— up to 500 V for current peak value n=30 rated value	184 A
— up to 690 V for current peak value n=30 rated value	184 A
— up to 1000 V for current peak value n=30 rated value	95 A
minimum cross-section in main circuit at maximum AC-1 rated value	185 mm²
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	117 A
at 690 V rated value	105 A
operational current	
at 1 current path at DC-1	200 A
- at 24 V rated value	300 A
— at 60 V rated value — at 110 V rated value	300 A 33 A
— at 110 V rated value — at 220 V rated value	33 A 3.8 A
— at 220 V rated value — at 440 V rated value	0.9 A
— at 600 V rated value	0.6 A
with 2 current paths in series at DC-1	
— at 24 V rated value	300 A

- at 10 V rate value 300 A - at 220 V rate value 300 A - at 220 V rate value 2 A - at 200 V rate value 300 A - at 24 V rate value 30 A - at 24 V rate value 30 A - at 24 V rate value 0.0 A - at 24 V rate value <th></th> <th></th>		
	— at 60 V rated value	300 A
	— at 110 V rated value	
- al 600 Vraide value 2A • with 3 current paths in series at DC-1 300 A - al 600 Vraide value 52 A - al 600 Vraide value 300 A - al 600 Vraide value 300 A - al 600 Vraide value 00 A - al 600 Vraide value 300 A - al 600 Vraide val	— at 220 V rated value	300 A
• with 3 current paths in series at DC-1• at 24 V relativable300 A- at 110 V rated value300 A- at 20 V rated value300 A- at 400 V rated value300 A- at 400 V rated value300 A- at 400 V rated value52 A- at 400 V rated value300 A- at 800 V rated value14 A- at 800 V rated value16 A- at 800 V rated value	— at 440 V rated value	4 A
		2 A
- af 10 V raide value300 Å- af 110 V raide value300 Å- af 220 V raide value300 Å- af 400 V raide value52 Å- af 400 V raide value52 Å- af 400 V raide value300 Å- af 500 V raide value11 Å- af 500 V raide value00 Å- af 500 V raide value01 Å- af 500 V raide value00 Å- af 500 V raide value00 Å- af 500 V raide value300 Å- af 500 V raide value160 K- af 500 V raide value160 K- af 500 V raide value160 K- af 500 V raide value150 K <th> with 3 current paths in series at DC-1 </th> <th></th>	 with 3 current paths in series at DC-1 	
	— 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
• alt 4 urnet path albC- albC-590 A- al 24 V relativation11 A- alt 10 V relativation3.A- alt 10 V relativation3.A- alt 20 V relativation0.18 A- alt 40 V relativation300 A- alt 400 V relativation30	— 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 	
- al 10 V rated value3 A- al 220 V rated value0.6 A- al 400 V rated value0.16 A- al 600 V rated value0.12 S A• with 2 current path in series at DC-3 at DC-5 al 24 V rated value300 A- al 10 V rated value14 A- al 10 V rated value12 K W- al 100 V rated value12 K W- al 100 V rated value132 KW- al 100 V rated value132 KW <trr>- al 100 V rate</trr>	— at 24 V rated value	300 A
	— at 60 V rated value	11 A
- at 440 V rated value0.18 A- at 600 V rated value0.25 A- at 24 V rated value300 A- at 60 V rated value300 A- at 60 V rated value300 A- at 720 V rated value0.37 A- at 720 V rated value300 A- at 720 V rated value75 KW- at 720 V rated value75 KW- at 720 V rated value122 KW- at 720 V rated value128 KW- at 720 V rated value128 KW- at 720 V rated value66 KW- at 720 V rated value66 KW- at 720 V rated value66 KW- at 720 V rated value <th>— at 110 V rated value</th> <td>3 A</td>	— at 110 V rated value	3 A
	— at 220 V rated value	0.6 A
• with 2 current paths in series at DC-3 at DC-6900 A at 24 V rated value300 A at 100 V rated value300 A at 100 V rated value25 A at 420 V rated value0.65 A at 600 V rated value0.00 A at 600 V rated value300 A at 60 V rated value300 A at 600 V rated value300 A at 600 V rated value132 kW at 600 V rated value132 kW at 600 V rated value132 kW at 600 V rated value160 kW <trr> at 600 V rated val</trr>	— 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 	
	— 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
• with 3 current paths in series at DC-3 at DC-5 9 - at 24 V rated value 300 A - at 60 V rated value 300 A - at 100 V rated value 300 A - at 200 V rated value 300 A - at 200 V rated value 300 A - at 200 V rated value 0.75 A operating power - - at 400 V rated value 0.75 KW - at 400 V rated value 160 kW - at 600 V rated value 132 kW - at 600 V rated value 132 kW - at 230 V rated value 132 kW - at 400 V rated value 132 kW - at 600 V rated value 132 kW - at 600 V rated value 122 kW - at 600 V rated value 122 kW - at 600 V rated value 120 kW - at 600 V rated value 100 kMA - at 600 V rated value 100 kMA - at 600 V for current pe	— at 440 V rated value	0.65 A
	— at 600 V rated value	0.37 A
− at 60 V rated value300 A− at 110 V rated value300 A− at 220 V rated value300 A− at 440 V rated value14. A− at 600 V rated value0.75 Aoperating power-− at 230 V rated value132 kW− at 400 V rated value132 kW− at 400 V rated value260 kW− at 600 V rated value260 kW− at 600 V rated value132 kW− at 600 V rated value250 kW− at 1000 V rated value132 kW− at 1000 V rated value132 kW− at 230 V rated value150 kW− at 230 V rated value250 kW− at 400 V rated value132 kW− at 680 V rated value250 kW− at 680 V rated value100 kW− at 690 V rated value100 kW− at 690 V rated value250 kW− at 690 V rated value100 kW− at 690 V rated value100 kW− at 690 V rated value100 kW− at 690 V rated value102 kW• at 690 V rated value102 kW• at 690 V rated value n=20 rated value100 00 kVA• at 690 V rated value n=20 rated value100 00 kW• up to 500 V for current peak value n=20 rated value100 00 kWA• up to 500 V for current peak value n=20 rated value100 00 kW• up to 500 V for current peak value n=20 rated value100 00 VA• up to 500 V for current peak value n=20 rated value100 00 VA• up to 500 V for current peak value n=30 rated value100 00 VA• up to 500 V for	 with 3 current paths in series at DC-3 at DC-5 	
at 110 V rated value300 A at 220 V rated value300 A at 440 V rated value1.4 A at 600 V rated value0.75 Aoperating power at 230 V rated value132 KW at 230 V rated value160 KW at 500 V rated value250 KW at 690 V rated value260 KW at 630 V rated value122 KW at 630 V rated value160 kW at 630 V rated value160 kW at 630 V rated value122 kW at 630 V rated value132 kW at 400 V rated value132 kW at 400 V rated value132 kW at 630 V rated value160 kW at 630 V rated value120 kW at 630 V rated value120 kW at 630 V rated value100 kW at 1000 V rated value100 kW at 1000 V rated value200 kW at 640 V rated value200 kW at 650 V rated value100 00 kVA at 1000 V rated value n=20 rated value100 00 kVA up to 230 V for current peak value n=20 rated value100 00 kVA up to 500 V for current peak value n=20 rated value160 000 VA up to 500 V for current peak value n=20 rated value160 000 VA up to 600 V for current peak value n=20 rated value160 000 VA up to 600 V for current peak value n=20 rated value160 000 VA up to 600 V for current peak value n=20 rated value160 000 VA up to 600 V for current peak value n=30 rated value160 000 V	— 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
operating power• at AC-375 kW- at 230 V rated value132 kW- at 400 V rated value132 kW- at 690 V rated value160 kW- at 690 V rated value250 kW- at 1000 V rated value132 kW• at AC-3e at 230 V rated value132 kW• at AC-3e at 200 V rated value132 kW• at AC-3e at 200 V rated value132 kW- at 200 V rated value12 kW- at 690 V rated value12 kW- at 690 V rated value250 kW- at 690 V rated value160 kW- at 690 V rated value250 kW- at 690 V rated value160 kW- at 690 V rated value102 kWoperating power for approx. 200000 operating cycles at AC-4• at 400 V rated value100 000 kVA• at 690 V rated value100 000 kVA• at 690 V rated value n=20 rated value100 000 kVA• at 690 V rater paek value n=20 rated value100 000 kVA• up to 500 V for current peak value n=20 rated value20000 VA• up to 500 V for current peak value n=20 rated value310 000 VA• up to 1000 V for current peak value n=20 rated value160 000 VA• up to 1000 V for current peak value n=20 rated value160 000 VA• up to 200 V for current peak value n=30 rated value120 000 VA• up to 500 V for current peak value n=30 rated value120 000 VA• up to 500 V for current peak value n=30 rated value120 000 VA• up to 500 V for curre	— at 440 V rated value	1.4 A
• at AC-3 75 kW - at 230 V rated value 75 kW - at 400 V rated value 132 kW - at 690 V rated value 60 kW - at 690 V rated value 250 kW - at 1000 V rated value 132 kW - at 1000 V rated value 132 kW - at 230 V rated value 132 kW - at 400 V rated value 150 kW - at 400 V rated value 160 kW - at 600 V rated value 160 kW - at 600 V rated value 100 000 kVA - at 600 V rated value 100 000 kVA - at 600 V rated value n=20 rated value 180 000 VA - up to 230 V for current peak value n=20 rated value 180 000 VA - up to 690 V for current peak value n=20 rated value 180 000 VA - up to 690 V for current peak value n=20 rated value 100 000 kVA - up to 690 V for current peak value n=20 rated value 100 000 VA - up to 500 V for current peak value n=20 rated value 100 000 VA - up	— at 600 V rated value	0.75 A
	operating power	
at 400 V rated value132 kW at 500 V rated value160 kW at 680 V rated value250 kW at 680 V rated value250 kW at 1000 V rated value250 kW at 230 V rated value75 kW at 230 V rated value132 kW at 240 V rated value160 kW at 680 V rated value250 kW at 1000 V rated value250 kW at 680 V rated value250 kW at 690 V rated value250 kW at 690 V rated value260 kW at 690 V rated value200 kW at 690 V rated value n=20 rated value100 000 kVA up to 230 V for current peak value n=20 rated value200 00 VA up to 690 V for current peak value n=20 rated value200 00 VA up to 690 V for current peak value n=20 rated value200 00 VA up to 230 V for current peak value n=20 rated value200 00 VA up to 230 V for current peak value n=20 rated value200 00 VA up to 690 V for current peak value n=20 rated value70 000 VA up to 230 V for current peak value n=30 rated value120 000 VA up to 230 V for current peak value n=30 rated value120 000 VA<	• at AC-3	
- at 500 V rated value 160 kW - at 690 V rated value 250 kW - at 1000 V rated value 132 kW - at 230 V rated value 75 kW - at 230 V rated value 150 kW - at 400 V rated value 150 kW - at 400 V rated value 160 kW - at 690 V rated value 160 kW - at 690 V rated value 160 kW - at 690 V rated value 250 kW - at 1000 V rated value 66 kW - at 400 V rated value 102 kW operating apparent power at AC-6a V • up to 230 V for current peak value n=20 rated value 100 000 kVA • up to 500 V for current peak value n=20 rated value 180 000 VA • up to 500 V for current peak value n=20 rated value 220 000 VA • up to 500 V for current peak value n=20 rated value 100 000 VA • up to 500 V for current peak value n=20 rated value 100 000 VA • up to 500 V for current peak value n=20 rated value 100 000 VA • up to 500 V for current peak value n=20 rated value 100 000 VA • up to 500 V for current peak value n=30 rated value 70 000 VA • up to 230 V for current peak value n=30 rated value 1	— at 230 V rated value	75 kW
- at 690 V rated value250 kW- at 1000 V rated value132 kW• at AC-3e at 230 V rated value75 kW- at 400 V rated value132 kW- at 400 V rated value160 kW- at 690 V rated value160 kW- at 690 V rated value250 kW- at 1000 V rated value250 kW- at 1000 V rated value66 kW- at 690 V rated value102 kWoperating power for approx. 20000 operating cycles at AC-466 kW- at 690 V rated value102 kWoperating apparent power at AC-6a	— at 400 V rated value	132 kW
at 1000 V rated value132 kW• at AC-3e at 230 V rated value75 kW at 400 V rated value132 kW at 500 V rated value160 kW at 690 V rated value250 kW at 690 V rated value250 kW at 1000 V rated value32 kW at 1000 V rated value66 kW at 1000 V rated value102 kWoperating power for approx. 200000 operating cycles at AC- 466 kW at 000 V rated value102 kWoperating apparent power at AC-6a	— at 500 V rated value	160 kW
• at AC-3e•- at 230 V rated value75 kW- at 400 V rated value132 kW- at 500 V rated value160 kW- at 690 V rated value250 kW- at 1000 V rated value132 kWoperating power for approx. 200000 operating cycles at AC-4•466 kW- at 400 V rated value66 kW- at 400 V rated value100 cycles at AC-54• at 400 V rated value100 cycles at AC-64• up to 230 V for current peak value n=20 rated value100 000 kVA• up to 500 V for current peak value n=20 rated value180 000 VA• up to 500 V for current peak value n=20 rated value310 000 VA• up to 500 V for current peak value n=20 rated value160 000 VA• up to 500 V for current peak value n=20 rated value160 000 VA• up to 500 V for current peak value n=20 rated value160 000 VA• up to 500 V for current peak value n=20 rated value120 000 VA• up to 500 V for current peak value n=20 rated value120 000 VA• up to 500 V for current peak value n=30 rated value120 000 VA• up to 500 V for current peak value n=30 rated value120 000 VA• up to 500 V for current peak value n=30 rated value120 000 VA• up to 500 V for current peak value n=30 rated value120 000 VA• up to 500 V for current peak value n=30 rated value120 000 VA• up to 500 V for current peak value n=30 rated value120 000 VA• up to 500 V for current peak value n=30 rated value120 000 VA• up to 500 V for current peak value n=30 rated value <th>— at 690 V rated value</th> <th>250 kW</th>	— at 690 V rated value	250 kW
at 230 V rated value75 kW at 400 V rated value132 kW at 500 V rated value160 kW at 690 V rated value250 kW at 1000 V rated value132 kWoperating power for approx. 200000 operating cycles at AC-466 kW- at 400 V rated value66 kW- at 400 V rated value100 cwcles- at 400 V rated value66 kW- at 690 V rated value100 cwcles- at 400 V rated value100 cwcles- at 400 V rated value100 cwcles- at 690 V for current peak value n=20 rated value100 cwcles- up to 500 V for current peak value n=20 rated value310 cwcles- up to 1000 V for current peak value n=20 rated value160 cwcles- up to 230 V for current peak value n=30 rated value70 cwcles- up to 230 V for current peak value n=30 rated value120 cwcles- up to 230 V for current peak value n=30 rated value120 cwcles- up to 400 V for current peak value n=30 rated value120 cwcles- up to 500 V for current peak value n=30 rated value120 cwcles- up to 500 V for current peak value n=30 rated value150 c	— at 1000 V rated value	132 kW
- at 400 V rated value132 kW- at 500 V rated value160 kW- at 690 V rated value250 kW- at 1000 V rated value132 kWoperating power for approx. 200000 operating cycles at AC-K466 kW- at 400 V rated value66 kW- at 690 V rated value102 kWoperating apparent power at AC-6aV- up to 230 V for current peak value n=20 rated value100 000 kVA- up to 500 V for current peak value n=20 rated value180 000 VA- up to 500 V for current peak value n=20 rated value160 000 VA- up to 500 V for current peak value n=20 rated value160 000 VA- up to 500 V for current peak value n=20 rated value160 000 VA- up to 1000 V for current peak value n=30 rated value120 000 VA- up to 230 V for current peak value n=30 rated value120 000 VA- up to 500 V for current peak value n=30 rated value120 000 VA- up to 500 V for current peak value n=30 rated value120 000 VA- up to 500 V for current peak value n=30 rated value120 000 VA- up to 500 V for current peak value n=30 rated value150 000 VA	• at AC-3e	
- at 500 V rated value160 kW- at 690 V rated value250 kW- at 100 V rated value132 kWoperating power for approx. 200000 operating cycles at AC- 466 kW- at 400 V rated value66 kW- at 690 V rated value102 kWoperating apparent power at AC-6a9000 kVA- up to 230 V for current peak value n=20 rated value100 000 kVA- up to 500 V for current peak value n=20 rated value180 000 VA- up to 500 V for current peak value n=20 rated value220 000 VA- up to 500 V for current peak value n=20 rated value160 000 VA- up to 500 V for current peak value n=20 rated value160 000 VA- up to 500 V for current peak value n=20 rated value160 000 VA- up to 500 V for current peak value n=20 rated value160 000 VA- up to 500 V for current peak value n=20 rated value160 000 VA- up to 500 V for current peak value n=30 rated value70 000 VA- up to 530 V for current peak value n=30 rated value120 000 VA- up to 500 V for current peak value n=30 rated value120 000 VA- up to 500 V for current peak value n=30 rated value150 000 VA- up to 500 V for current peak value n=30 rated value150 000 VA- up to 500 V for current peak value n=30 rated value150 000 VA- up to 500 V for current peak value n=30 rated value150 000 VA	— at 230 V rated value	75 kW
at 600 V rated value250 kW at 1000 V rated value132 kWoperating power for approx. 200000 operating cycles at AC-132 kW- at 400 V rated value66 kW- at 600 V rated value102 kWoperating apparent power at AC-6a100 000 kVA- u up to 230 V for current peak value n=20 rated value100 000 kVA- u up to 500 V for current peak value n=20 rated value180 000 VA- u up to 500 V for current peak value n=20 rated value180 000 VA- u up to 500 V for current peak value n=20 rated value160 000 VA- u up to 500 V for current peak value n=20 rated value160 000 VA- u up to 1000 V for current peak value n=20 rated value160 000 VA- u up to 500 V for current peak value n=20 rated value160 000 VA- u up to 1000 V for current peak value n=20 rated value100 000 VA- u up to 500 V for current peak value n=20 rated value100 000 VA- u up to 1000 V for current peak value n=30 rated value100 000 VA- u up to 230 V for current peak value n=30 rated value70 000 VA- u up to 500 V for current peak value n=30 rated value120 000 VA- u up to 500 V for current peak value n=30 rated value150 000 VA		132 kW
at 1000 V rated value132 kWoperating power for approx. 200000 operating cycles at AC- 4C• at 400 V rated value66 kW• at 690 V rated value102 kWoperating apparent power at AC-6aV• up to 230 V for current peak value n=20 rated value100 000 kVA• up to 500 V for current peak value n=20 rated value180 000 VA• up to 500 V for current peak value n=20 rated value220 000 VA• up to 500 V for current peak value n=20 rated value160 000 VA• up to 500 V for current peak value n=20 rated value220 000 VA• up to 1000 V for current peak value n=20 rated value160 000 VA• up to 500 V for current peak value n=20 rated value160 000 VA• up to 1000 V for current peak value n=20 rated value160 000 VA• up to 230 V for current peak value n=30 rated value120 000 VA• up to 500 V for current peak value n=30 rated value120 000 VA• up to 500 V for current peak value n=30 rated value120 000 VA• up to 500 V for current peak value n=30 rated value120 000 VA• up to 500 V for current peak value n=30 rated value150 000 VA	— at 500 V rated value	160 kW
operating power for approx. 200000 operating cycles at AC- 4• at 400 V rated value66 kW• at 690 V rated value102 kWoperating apparent power at AC-6a• up to 230 V for current peak value n=20 rated value100 000 kVA• up to 400 V for current peak value n=20 rated value180 000 VA• up to 500 V for current peak value n=20 rated value220 000 VA• up to 690 V for current peak value n=20 rated value310 000 VA• up to 1000 V for current peak value n=20 rated value160 000 VA• up to 230 V for current peak value n=30 rated value70 000 VA• up to 230 V for current peak value n=30 rated value120 000 VA• up to 230 V for current peak value n=30 rated value100 000 VA• up to 500 V for current peak value n=30 rated value100 000 VA• up to 500 V for current peak value n=30 rated value120 000 VA• up to 500 V for current peak value n=30 rated value120 000 VA• up to 500 V for current peak value n=30 rated value120 000 VA• up to 500 V for current peak value n=30 rated value120 000 VA• up to 500 V for current peak value n=30 rated value150 000 VA	— at 690 V rated value	250 kW
4• at 400 V rated value66 kW• at 690 V rated value102 kWoperating apparent power at AC-6a• up to 230 V for current peak value n=20 rated value100 000 kVA• up to 400 V for current peak value n=20 rated value180 000 VA• up to 500 V for current peak value n=20 rated value220 000 VA• up to 690 V for current peak value n=20 rated value310 000 VA• up to 1000 V for current peak value n=20 rated value160 000 VA• up to 230 V for current peak value n=20 rated value160 000 VA• up to 230 V for current peak value n=20 rated value160 000 VA• up to 230 V for current peak value n=30 rated value70 000 VA• up to 230 V for current peak value n=30 rated value120 000 VA• up to 500 V for current peak value n=30 rated value120 000 VA• up to 500 V for current peak value n=30 rated value150 000 VA	— at 1000 V rated value	132 kW
• at 400 V rated value66 kW• at 690 V rated value102 kWoperating apparent power at AC-6aV• up to 230 V for current peak value n=20 rated value100 000 kVA• up to 400 V for current peak value n=20 rated value180 000 VA• up to 500 V for current peak value n=20 rated value220 000 VA• up to 690 V for current peak value n=20 rated value310 000 VA• up to 1000 V for current peak value n=20 rated value160 000 VA• up to 1000 V for current peak value n=20 rated value160 000 VA• up to 1000 V for current peak value n=20 rated value160 000 VA• up to 1000 V for current peak value n=30 rated value120 000 VA• up to 230 V for current peak value n=30 rated value120 000 VA• up to 400 V for current peak value n=30 rated value120 000 VA• up to 500 V for current peak value n=30 rated value120 000 VA		
• at 690 V rated value102 kWoperating apparent power at AC-6a• up to 230 V for current peak value n=20 rated value100 000 kVA• up to 400 V for current peak value n=20 rated value180 000 VA• up to 500 V for current peak value n=20 rated value220 000 VA• up to 690 V for current peak value n=20 rated value310 000 VA• up to 1000 V for current peak value n=20 rated value160 000 VA• up to 1000 V for current peak value n=20 rated value160 000 VA• up to 230 V for current peak value n=30 rated value70 000 VA• up to 230 V for current peak value n=30 rated value120 000 VA• up to 400 V for current peak value n=30 rated value150 000 VA		
operating apparent power at AC-6a100 000 kVA• up to 230 V for current peak value n=20 rated value100 000 kVA• up to 400 V for current peak value n=20 rated value180 000 VA• up to 500 V for current peak value n=20 rated value220 000 VA• up to 690 V for current peak value n=20 rated value310 000 VA• up to 1000 V for current peak value n=20 rated value160 000 VA• up to 1000 V for current peak value n=20 rated value160 000 VA• up to 230 V for current peak value n=30 rated value70 000 VA• up to 400 V for current peak value n=30 rated value120 000 VA• up to 500 V for current peak value n=30 rated value120 000 VA	• at 400 V rated value	66 kW
 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 220 000 VA up to 690 V for current peak value n=20 rated value 310 000 VA up to 1000 V for current peak value n=20 rated value 160 000 VA up to 230 V for current peak value n=30 rated value 000 VA up to 230 V for current peak value n=30 rated value 100 000 VA up to 400 V for current peak value n=30 rated value 120 000 VA up to 500 V for current peak value n=30 rated value 150 000 VA 		102 kW
 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 160 000 VA Operating apparent power at AC-6a up to 230 V for current peak value n=30 rated value 000 VA up to 400 V for current peak value n=30 rated value 120 000 VA up to 500 V for current peak value n=30 rated value 120 000 VA 		
 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 160 000 VA Operating apparent power at AC-6a up to 230 V for current peak value n=30 rated value 000 VA 120 000 VA 000 VA 000 VA 120 000 VA 120 000 VA 150 000 VA		
 up to 690 V for current peak value n=20 rated value up to 1000 V for current peak value n=20 rated value 160 000 VA operating apparent power at AC-6a up to 230 V for current peak value n=30 rated value 000 VA up to 400 V for current peak value n=30 rated value 120 000 VA up to 500 V for current peak value n=30 rated value 150 000 VA 		180 000 VA
• up to 1000 V for current peak value n=20 rated value 160 000 VA operating apparent power at AC-6a - • up to 230 V for current peak value n=30 rated value 70 000 VA • up to 400 V for current peak value n=30 rated value 120 000 VA • up to 500 V for current peak value n=30 rated value 150 000 VA		
operating apparent power at AC-6a70 000 VA• up to 230 V for current peak value n=30 rated value70 000 VA• up to 400 V for current peak value n=30 rated value120 000 VA• up to 500 V for current peak value n=30 rated value150 000 VA		310 000 VA
• up to 230 V for current peak value n=30 rated value70 000 VA• up to 400 V for current peak value n=30 rated value120 000 VA• up to 500 V for current peak value n=30 rated value150 000 VA	 up to 1000 V for current peak value n=20 rated value 	160 000 VA
up to 400 V for current peak value n=30 rated value 120 000 VA 150 000 VA	operating apparent power at AC-6a	
• up to 500 V for current peak value n=30 rated value 150 000 VA	• up to 230 V for current peak value n=30 rated value	70 000 VA
	• up to 400 V for current peak value n=30 rated value	120 000 VA
• up to 690 V for current peak value n=30 rated value 220 000 VA	• up to 500 V for current peak value n=30 rated value	150 000 VA
	• up to 690 V for current peak value n=30 rated value	220 000 VA

 up to 1000 V for current peak value n=30 rated value 	160 000 VA			
short-time withstand current in cold operating state up to				
40 °C				
 limited to 1 s switching at zero current maximum 	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			
 limited to 10 s switching at zero current maximum 	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	1 000 1/h			
• at DC	1 000 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			
control supply voltage at AC				
• at 50 Hz rated value	96 127 V			
at 50 Hz rated value at 60 Hz rated value	96 127 V 96 127 V			
	96 127 V 96 127 V			
control supply voltage at DC rated value	30 127 V			
operating range factor control supply voltage rated value of magnet coil at DC				
initial value	0.8			
• full-scale value	1.1			
operating range factor control supply voltage rated value of magnet coil at AC				
• at 50 Hz	0.8 1.1			
• at 60 Hz	0.8 1.1			
type of PLC-control input according to IEC 60947-1	Type 2			
consumed current at PLC-control input according to IEC 60947-1 maximum	20 mA			
voltage at PLC-control input rated value	24 V			
operating range factor of the voltage at PLC-control input	0.8 1.1			
design of the surge suppressor	with varistor			
apparent pick-up power				
 at minimum rated control supply voltage at AC 				
— at 50 Hz	400 VA			
— at 60 Hz	400 VA			
 at maximum rated control supply voltage at AC 				
— at 60 Hz	530 VA			
— at 50 Hz	530 VA			
apparent pick-up power of magnet coil at AC				
• at 50 Hz	530 VA			
• at 60 Hz	530 VA			
inductive power factor with closing power of the coil				
• at 50 Hz	0.8			
• at 60 Hz	0.8			
apparent holding power				
 at minimum rated control supply voltage at DC 	2.8 VA			
 at maximum rated control supply voltage at DC 	3.4 VA			
apparent holding power				
 at minimum rated control supply voltage at AC 				
— at 50 Hz	5.5 VA			
— at 60 Hz	5.5 VA			
 at maximum rated control supply voltage at AC 				
— at 50 Hz	8.5 VA			
— at 60 Hz	8.5 VA			
inductive power factor with the holding power of the coil				
• at 50 Hz	0.5			

• at 60 Hz	0.4			
closing power of magnet coil at DC	580 W			
holding power of magnet coil at DC	3.4 W			
closing delay				
• at AC	45 80 ms			
• at DC	45 80 ms			
opening delay				
• at AC	80 100 ms			
• at DC	80 100 ms			
arcing time	10 15 ms			
control version of the switch operating mechanism	PLC-IN or Standard A1 - A2 (adjustable)			
Auxiliary circuit				
number of NC contacts for auxiliary contacts instantaneous contact	2			
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 250 V rated value at 400 V rated value	3 A			
at 500 V rated value	2 A			
at 500 V rated value at 690 V rated value	1A			
operational current at DC-12				
• at 24 V rated value	10 A			
at 24 V rated value at 48 V rated value	6 A			
at 48 V rated value at 60 V rated value	6 A			
	3 A			
at 110 V rated value				
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				
design of the fuse link				
 for short-circuit protection of the main circuit 				
— with type of coordination 1 required	gG: 500 A (690 V, 100 kA)			
— with type of assignment 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	screw fixing			
height	210 mm			

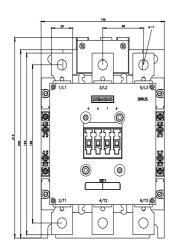
width	145 mm			
depth	202 mm			
required spacing				
with side-by-side mounting				
— forwards	20 mm			
— upwards	10 mm			
— downwards	10 mm			
— at the side	0 mm			
 for grounded parts 				
— forwards	20 mm			
— upwards	10 mm			
— at the side	10 mm			
— downwards	10 mm			
for live parts				
— forwards	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 	screw-type terminals			
 at contactor for auxiliary contacts 	Screw-type terminals			
• of magnet coil	Screw-type terminals			
width of connection bar	25 mm			
thickness of connection bar	6 mm			
diameter of holes	11 mm			
number of holes	1			
type of connectable conductor cross-sections				
 for AWG cables for main contacts 	2/0 500 kcmil			
connectable conductor cross-section for main contacts				
stranded	70 240 mm²			
connectable conductor cross-section for auxiliary contacts				
 solid or stranded 	0.5 4 mm²			
 finely stranded with core end processing 	0.5 2.5 mm²			
type of connectable conductor cross-sections				
 for auxiliary contacts 				
— solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)			
— solid or stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), max. 2x (0,75 4 mm²)			
- finely stranded with core end processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)			
 for AWG cables for auxiliary contacts 	2x (20 16), 2x (18 14), 1x 12			
AWG number as coded connectable conductor cross				
section	40 44			
for auxiliary contacts	18 14			
Safety related data				
product function	Vee			
mirror contact according to IEC 60947-4-1	Yes			
 positively driven operation according to IEC 60947-5-1 puttable for pofety function 	No			
suitable for safety function	Yes			
suitability for use safety-related switching OFF	Yes; safety-related disconnection via A1 A2			
service life maximum	20 a			
test wear-related service life necessary proportion of dangerous failures	Yes			
with low demand rate according to SN 31920	40 %			
with high demand rate according to SN 31920 with high demand rate according to SN 31920	40 % 73 %			
	1 000 000			
B10 value with high demand rate according to SN 31920	100 000 100 FIT			
failure rate [FIT] with low demand rate according to SN 31920				
ISO 13849				
device type according to ISO 13849-1	3			
overdimensioning according to ISO 13849-2 necessary	Yes			

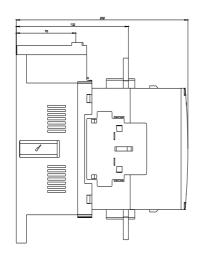
IEC 61508						
	ording to IEC 64509.2	Turne	Туре А			
safety device type acc		Туре	A			
Electrical Safety	the frent coording to I	FC C0520	ID20 with hey terminal/as			
-	the front according to I		IP20 with box terminal/co			
•	e front according to IEC	5 60529 finger	r-safe, for vertical contact	from the front with box ter	rminal/cover	
Approvals Certificates						
General Product Appr	oval					
<u>Confirmation</u>	CE EG-Konf.		UK CA		KC	
General Product Ap- proval	EMV	Functional Saftey	Test Certificates		Marine / Shipping	
EHC	RCM	Type Examination Cer- tificate	<u>Special Test Certific-</u> <u>ate</u>	Type Test Certific- ates/Test Report	ABS	
Marine / Shipping				other		
	Lloyd's Register us	PRS	RMRS	<u>Confirmation</u>	<u>Miscellaneous</u>	
other	Railway	Environment				
<u>Confirmation</u>	<u>Special Test Certific-</u> <u>ate</u>	Environmental Con- firmations				
Further information						
Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875						
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=3RT1065-6NF36						
Cax online generator						
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1065-6NF36 Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RT1065-6NF36						
Image database (produ	uct images, 2D dimensi		, <mark>device circuit diagrams</mark> <u>NF36⟨=en</u>	s, EPLAN macros,)		
Characteristic: Trippin	ig characteristics, I ² t, Le	et-through current				

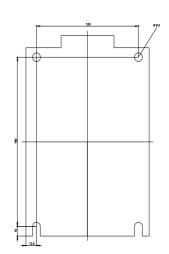
 https://support.industry.siemens.com/cs/ww/en/ps/3RT1065-6NF36/char

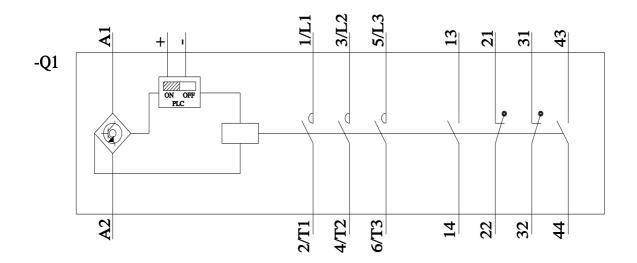
 Further characteristics (e.g. electrical endurance, switching frequency)

 http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1065-6NF36&objecttype=14&gridview=view1









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