SIEMENS

Data sheet 3RT1076-6AR36



power contactor, AC-3e/AC-3 500 A, 250 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: screw terminal

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT1
General technical data	
size of contactor	S12
product extension	
• function module for communication	No
auxiliary switch	Yes
power loss [W] for rated value of the current	
at AC in hot operating state	165 W
at AC in hot operating state per pole	55 W
without load current share typical	10 W
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)	05/01/2012
SVHC substance name	Blei - 7439-92-1
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	95 %

maximum	
ain 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	610 A
value	
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated	610 A
value	
— up to 690 V at ambient temperature 60 °C rated	550 A
value	000 A
 up to 1000 V at ambient temperature 40 °C rated value 	200 A
— up to 1000 V at ambient temperature 60 °C rated	200 A
value	
• at AC-3	
— at 400 V rated value	500 A
— at 500 V rated value	500 A
— at 690 V rated value	450 A
— at 1000 V rated value	180 A
• at AC-3e	
— at 400 V rated value	500 A
— at 500 V rated value	500 A
— at 690 V rated value	450 A
— at 1000 V rated value	180 A
at AC-4 at 400 V rated value	430 A
at AC-5a up to 690 V rated value	536 A
at AC-5a up to 490 V rated value at AC-5b up to 400 V rated value	415 A
• at AC-3b up to 400 V fated Value	415 A
	44.4. A
— up to 230 V for current peak value n=20 rated value	414 A
— up to 400 V for current peak value n=20 rated value	414 A
— up to 500 V for current peak value n=20 rated value	414 A
— up to 690 V for current peak value n=20 rated value	414 A
 up to 1000 V for current peak value n=20 rated value 	180 A
• at AC-6a	
— up to 230 V for current peak value n=30 rated value	276 A
— up to 400 V for current peak value n=30 rated value	276 A
— up to 500 V for current peak value n=30 rated value	276 A
— up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value	276 A
— up to 1000 V for current peak value n=30 rated	180 A
value	10071
ninimum cross-section in main circuit at maximum AC-1 rated value	370 mm²
operational current for approx. 200000 operating cycles at	
at 400 V rated value	175 A
at 690 V rated value	150 A
pperational current	
at 1 current path at DC-1	
— at 24 V rated value	400 A
— at 60 V rated value	330 A
— at 110 V rated value	33 A
— at 110 v rated value — at 220 V rated value	3.8 A
— 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 reted value.	400 A
— at 24 V rated value	400 A
— at 60 V rated value	400 A

	-1 440 V1 dl	400 A
	— at 110 V rated value	400 A
### 1600 V rated value ### 1000 V rated value ### 10		
### with 3 current paths in series at DC-1 - at 24 V rated value - at 110 V rated value - at 110 V rated value - at 24 V rated value - at 25 A ** at 1 current path at DC-3 at DC-5 ** at 1 current path at DC-3 at DC-5 - at 26 V rated value - at 26 V rated value - at 27 V rated value - at 28 V rated value - at 29 V rated value - at 29 V rated value - at 20 V rated value - at 28 V rated value - at 28 V rated value - at 29 V rated value - at 20 V rated value		
		2 A
	-	
	— at 110 V rated value	400 A
■ at 1 current path at DC-3 at DC-5 — at 24 V rated value — at 80 V rated value — 40 00 A — 12 24 V rated value — 40 00 A — 11 10 V rated value — 40 00 A — 11 10 V rated value — 40 00 A — 11 10 V rated value — 40 00 A — 11 10 V rated value — 40 00 A — 11 10 V rated value — 40 00 A — 11 24 V rated value — 40 00 A — 11 24 V rated value — 40 00 A — 11 24 V rated value — 40 00 A — 11 24 V rated value — 40 00 A — 11 24 V rated value — 40 00 A — 11 10 V rated value — 40 00 A — 11 10 V rated value — 40 00 A — 11 10 V rated value — 40 00 A — 11 10 V rated value — 40 00 A — 11 10 V rated value — 40 00 A — 11 10 V rated value — 40 00 A — 11 10 V rated value — 40 00 A — 11 10 V rated value — 40 00 A — 11 10 V rated value — 40 00 A — 11 10 V rated value — 40 00 A — 11 10 V rated value — 40 00 A — 11 10 V rated value — 12 20 V rated value — 12 20 V rated value — 18 00 V rated va	— at 220 V rated value	
■ at 1 current path at DC-3 at DC-5 — at 24 V rated value	— 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 	
at 220 V rated value	— at 24 V rated value	400 A
at 440 V rated value	— at 60 V rated value	11 A
• with 2 current paths in series at DC-3 at DC-5 — at 24 V rated value 400 A — at 190 V rated value 400 A — at 110 V rated value 400 A — at 110 V rated value 2.5 A — at 440 V rated value 0.85 A — at 440 V rated value 0.37 A • with 3 current paths in series at DC-3 at DC-5 400 A — at 24 V rated value 400 A — at 50 V rated value 400 A — at 210 V rated value 400 A — at 220 V rated value 400 A — at 24 V rated value 400 A — at 24 V rated value 400 A — at 220 V rated value 400 A — at 240 V rated value 0.75 A operating power • 18 AC-3 — at 230 V rated value 250 kW — at 400 V rated value 250 kW — at 690 V rated value 250 kW — at 690 V rated value<	— at 220 V rated value	0.6 A
• with 2 current paths in series at DC-3 at DC-5 — at 224 V rated value — at 610 V rated value — at 110 V rated value — at 256 V rated value — at 200 V rated value — at 440 V rated value — at 440 V rated value — at 600 V rated value • with 3 current paths in series at DC-3 at DC-5 — at 24 V rated value — at 60 V rated value — at 60 V rated value — at 100 V rated value — at 440 V rated value — at 400 V rated value — at 500 V rated value — at 600 V rated value — at 1000 V rated value — at 600 V rat	— at 440 V rated value	0.18 A
	— at 600 V rated value	0.125 A
at 100 V rated value	 with 2 current paths in series at DC-3 at DC-5 	
	— at 24 V rated value	400 A
	— at 60 V rated value	400 A
	— at 110 V rated value	400 A
	— at 220 V rated value	2.5 A
with 3 current paths in series at DC-3 at DC-5	— at 440 V rated value	0.65 A
	— at 600 V rated value	0.37 A
at 10 V rated value	 with 3 current paths in series at DC-3 at DC-5 	
- at 110 V rated value	— at 24 V rated value	400 A
- at 220 V rated value	— at 60 V rated value	400 A
	— at 110 V rated value	400 A
operating power	— at 220 V rated value	400 A
● at AC-3 — at 230 V rated value 160 kW — at 400 V rated value 250 kW — at 500 V rated value 315 kW — at 690 V rated value 400 kW — at 1000 V rated value 250 kW • at AC-3e — at 230 V rated value — at 500 V rated value 250 kW — at 1000 V rated value 250 kW — at 400 V rated value 250 kW — at 400 V rated value 250 kW — at 400 V rated value 250 kW — at 690 V rated value 250 kW • at 400 V rated value 160 kW • at 400 V rated value 250 kW • put to 230 V for current peak value n=20 rated value 180 000 kVA • up to 500 V for current peak value n=20 rated value 280 000 VA • up to 500 V for current peak value n=20 rated value 490 000 VA • up to 500 V for current peak value n=30 rated value 110 000 VA • up to 500 V for cur	— at 440 V rated value	1.4 A
• at AC-3 — at 230 V rated value — at 400 V rated value — at 500 V rated value — at 690 V rated value — at 1000 V rated value — at 250 kW • at AC-3e — at 230 V rated value — at 400 V rated value — at 400 V rated value — at 400 V rated value — at 690 V rated value — at 1000 V rated value — at 400 V rated value — at 400 V rated value • at 400 V rated value • at 400 V rated value • at 690 V 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 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	— at 600 V rated value	0.75 A
at 230 V rated value	operating power	
- at 400 V rated value	• at AC-3	
- at 500 V rated value	— at 230 V rated value	160 kW
- at 690 V rated value - at 1000 V rated value 250 kW • at AC-3e - at 230 V rated value 160 kW - at 400 V rated value 250 kW - at 690 V rated value 250 kW - at 1000 V rated value 250 kW operating power for approx. 200000 operating cycles at AC- 4 • at 400 V rated value 98 kW • at 690 V rated value 148 kW operating apparent power at AC-6a • up to 230 V for current peak value n=20 rated value 280 000 VA • up to 500 V for current peak value n=20 rated value 9000 VA • up to 690 V for current peak value n=20 rated value 490 000 VA • up to 1000 V for current peak value n=20 rated value 1000 VA • up to 230 V for current peak value n=20 rated value 1000 VA • up to 500 V for current peak value n=30 rated value 110 000 VA operating apparent power at AC-6a • up to 230 V for current peak value n=30 rated value 110 000 VA • up to 500 V for current peak value n=30 rated value 110 000 VA • up to 690 V for current peak value n=30 rated value 230 000 VA • up to 690 V for current peak value n=30 rated value 230 000 VA • up to 690 V for current peak value n=30 rated value 230 000 VA • up to 690 V for current peak value n=30 rated value 230 000 VA • up to 690 V for current peak value n=30 rated value 330 000 VA • up to 690 V for current peak value n=30 rated value 330 000 VA	— at 400 V rated value	250 kW
- at 1000 V rated value • at AC-3e — at 230 V rated value — 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 400 V rated value — at 690 V rated value — at 1000 V rated value — at 1000 V rated value 98 kW • at 400 V rated value • at 400 V rated value 148 kW Operating apparent power 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 230 V for current peak value n=20 rated value • up to 230 V for current peak value n=30 rated value 110 000 VA • 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 690 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 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 500 V rated value	315 kW
at AC-3e — at 230 V rated value — at 400 V rated value — at 500 V rated value — at 690 V rated value — at 1000 V rated value — at 400 V rated value operating power for approx. 200000 operating cycles at AC-4 at 400 V rated value at 400 V rated value at 690 V rated value au to 230 V for current peak value n=20 rated value au to 400 V for current peak value n=20 rated value au p to 500 V for current peak value n=20 rated value au p to 1000 V for current peak value n=20 rated value au p to 1000 V for current peak value n=20 rated value au p to 1000 V for current peak value n=30 rated value au p to 500 V for current peak value n=30 rated value au p to 500 V for current peak value n=30 rated value au p to 500 V for current peak value n=30 rated value au p to 500 V for current peak value n=30 rated value au p to 500 V for current peak value n=30 rated value au p to 690 V for current peak value n=30 rated value au p to 690 V for current peak value n=30 rated value au p to 500 V for current peak value n=30 rated value au p to 500 V for current peak value n=30 rated value au p to 500 V for current peak value n=30 rated value au p to 500 V for current peak value n=30 rated value au p to 500 V for current peak value n=30 rated value au p to 500 V for current peak value n=30 rated value au p to 500 V for current peak value n=30 rated value au p to 500 V for current peak value n=30 rated value au p to 500 V for current peak value n=30 rated value au p to 500 V for current peak value n=30 rated value au p to 500 V for current peak value n=30 rated value au p to 500 V for current peak value n=30 rated value au p to 500 V for current peak value n=30 rated value	— at 690 V rated value	400 kW
- at 230 V rated value - at 400 V rated value - at 500 V rated value - at 690 V rated value - at 1000 V rated value - at 400 V rated value • at 400 V rated value • at 690 V rated value • 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 690 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 230 V for current peak value n=30 rated value • 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 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 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value	— at 1000 V rated value	250 kW
- at 400 V rated value - at 500 V rated value - at 690 V rated value - at 1000 V rated value - at 1000 V rated value 250 kW operating power for approx. 200000 operating cycles at AC- 4 • at 400 V rated value • at 690 V rated value • at 690 V rated value operating apparent power 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 500 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=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 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 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 AC-3e	
- at 500 V rated value - at 690 V rated value - at 1000 V rated value 250 kW operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value • at 690 V rated value • at 690 V 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 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 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 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 230 V rated value	160 kW
- at 690 V rated value 250 kW operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value 98 kW • at 690 V rated value 148 kW operating apparent power at AC-6a • up to 230 V for current peak value n=20 rated value 280 000 VA • up to 400 V for current peak value n=20 rated value 350 000 VA • up to 690 V for current peak value n=20 rated value 490 000 VA • up to 1000 V for current peak value n=20 rated value 490 000 VA • up to 230 V for current peak value n=20 rated value 490 000 VA • up to 500 V for current peak value n=20 rated value 490 000 VA • up to 1000 V for current peak value n=20 rated value 310 000 VA operating apparent power at AC-6a • up to 230 V for current peak value n=30 rated value 190 000 VA • up to 400 V for current peak value n=30 rated value 190 000 VA • up to 500 V for current peak value n=30 rated value 230 000 VA • up to 690 V for current peak value n=30 rated value 330 000 VA • up to 690 V for current peak value n=30 rated value 330 000 VA • up to 1000 V for current peak value n=30 rated value 330 000 VA • up to 1000 V for current peak value n=30 rated value 330 000 VA	— at 400 V rated value	250 kW
operating power for approx. 200000 operating cycles at AC- at 400 V rated value at 690 V rated value at 690 V rated value at 690 V for current peak value n=20 rated value aup to 230 V for current peak value n=20 rated value aup to 400 V for current peak value n=20 rated value aup to 500 V for current peak value n=20 rated value aup to 690 V for current peak value n=20 rated value aup to 1000 V for current peak value n=20 rated value aup to 1000 V for current peak value n=20 rated value aup to 1000 V for current peak value n=20 rated value aup to 1000 V for current peak value n=20 rated value aup to 230 V for current peak value n=30 rated value aup to 400 V for current peak value n=30 rated value aup to 400 V for current peak value n=30 rated value aup to 500 V for current peak value n=30 rated value aup to 690 V for current peak value n=30 rated value aup to 690 V for current peak value n=30 rated value aup to 1000 V for current peak value n=30 rated value aup to 1000 V for current peak value n=30 rated value aup to 1000 V for current peak value n=30 rated value aup to 1000 V for current peak value n=30 rated value aup to 1000 V for current peak value n=30 rated value aup to 1000 V for current peak value n=30 rated value aup to 1000 V for current peak value n=30 rated value aup to 1000 V for current peak value n=30 rated value aup to 1000 V for current peak value n=30 rated value	— at 500 V rated value	315 kW
operating power for approx. 200000 operating cycles at AC- 4 • at 400 V rated value • at 690 V rated value • 148 kW operating apparent power 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 • 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 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 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	— at 690 V rated value	400 kW
at 400 V rated value at 690 V rated value 148 kW operating apparent power at AC-6a up to 230 V for current peak value n=20 rated value 160 000 kVA up to 400 V for current peak value n=20 rated value 280 000 VA up to 500 V for current peak value n=20 rated value 350 000 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 310 000 VA operating apparent power at AC-6a up to 230 V for current peak value n=30 rated value 110 000 VA up to 400 V for current peak value n=30 rated value 110 000 VA up to 500 V for current peak value n=30 rated value 230 000 VA up to 690 V for current peak value n=30 rated value 310 000 VA up to 690 V for current peak value n=30 rated value 330 000 VA up to 1000 V for current peak value n=30 rated value 310 000 VA	— at 1000 V rated value	250 kW
 at 400 V rated value at 690 V rated value 148 kW Operating apparent power 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 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 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 330 000 VA up to 1000 V for current peak value n=30 rated value 310 000 VA 		
at 690 V rated value operating apparent power 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 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 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 1000 V for current peak value n=30 rated value up to 1000 V for current peak value n=30 rated value 30000 VA up to 1000 V for current peak value n=30 rated value 310 000 VA		
operating apparent power 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 • 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 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 1000 V for current peak value n=30 rated value 330 000 VA • up to 1000 V for current peak value n=30 rated value 330 000 VA		
 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 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 1000 V for current peak value n=30 rated value 330 000 V A up to 1000 V for current peak value n=30 rated value 310 000 V A up to 1000 V for current peak value n=30 rated value 310 000 V A 310 000 V A 310 000 V A 	at 690 V rated value	148 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 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 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 690 V for current peak value n=30 rated value 330 000 V A up to 1000 V for current peak value n=30 rated value 310 000 V A 	operating apparent power at AC-6a	
 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=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 690 V for current peak value n=30 rated value up to 1000 V for current peak value n=30 rated value 350 000 VA 110 000 VA 230 000 VA up to 500 V for current peak value n=30 rated value 330 000 VA up to 1000 V for current peak value n=30 rated value 310 000 VA 	 up to 230 V for current peak value n=20 rated value 	160 000 kVA
 up to 690 V for current peak value n=20 rated value up to 1000 V for current peak value n=20 rated value operating apparent power 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 330 000 V A up to 1000 V for current peak value n=30 rated value 310 000 V A 	 up to 400 V for current peak value n=20 rated value 	280 000 VA
 up to 1000 V for current peak value n=20 rated value operating apparent power 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 330 000 V A up to 1000 V for current peak value n=30 rated value 310 000 V A 	·	350 000 VA
 operating apparent power 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 330 000 VA up to 1000 V for current peak value n=30 rated value 310 000 VA 	• up to 690 V for current peak value n=20 rated value	490 000 VA
 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 330 000 VA up to 1000 V for current peak value n=30 rated value 310 000 VA 	• up to 1000 V for current peak value n=20 rated value	310 000 VA
 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 330 000 VA up to 1000 V for current peak value n=30 rated value 310 000 VA 	operating apparent power at AC-6a	
 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 330 000 VA 310 000 VA 	• up to 230 V for current peak value n=30 rated value	110 000 VA
 up to 690 V for current peak value n=30 rated value up to 1000 V for current peak value n=30 rated value 330 000 VA 310 000 VA 	• up to 400 V for current peak value n=30 rated value	190 000 VA
• up to 1000 V for current peak value n=30 rated value 310 000 VA	• up to 500 V for current peak value n=30 rated value	230 000 VA
	• up to 690 V for current peak value n=30 rated value	330 000 VA
short-time withstand current in cold operating state up to	• up to 1000 V for current peak value n=30 rated value	310 000 VA
	short-time withstand current in cold operating state up to	

40 °C	
 limited to 1 s switching at zero current maximum 	7 484 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	7 484 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	5 978 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum 	3 765 A; Use minimum cross-section acc. to AC-1 rated value
limited to 60 s switching at zero current maximum	2 887 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	500 1/h
• at AC-2 maximum	170 1/h
• at AC-3 maximum	420 1/h
• at AC-3e maximum	420 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	440 480 V
at 60 Hz rated value	440 480 V
control supply voltage at DC rated value	
• •	440 480 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	1.1
• at 50 Hz	0.8 1.1
• at 60 Hz	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	700 VA
— at 60 Hz	700 VA
at maximum rated control supply voltage at AC	
— at 60 Hz	830 VA
— at 50 Hz	830 VA
apparent pick-up power of magnet coil at AC	300 77
• at 50 Hz	830 VA
• at 60 Hz	830 VA
inductive power factor with closing power of the coil	000 1/1
at 50 Hz	0.9
• at 60 Hz	0.9
apparent holding power	0.0
at minimum rated control supply voltage at DC	8.5 VA
at maximum rated control supply voltage at DC at maximum rated control supply voltage at DC	8.5 VA 10 VA
,	IU VA
apparent holding power	
 at minimum rated control supply voltage at AC — at 50 Hz 	7.6 VA
— at 60 Hz	7.6 VA
at maximum rated control supply voltage at AC	0.2374
— at 50 Hz	9.2 VA
— at 60 Hz	9.2 VA
inductive power factor with the holding power of the coil	0.0
• at 50 Hz	0.9
• at 60 Hz	0.9
closing power of magnet coil at DC	920 W
holding power of magnet coil at DC	10 W
closing delay	45 400
• at AC	45 100 ms

-100	45 400
• at DC	45 100 ms
opening delay	CO 400
• at AC	60 100 ms
• at DC	60 100 ms
arcing time	10 15 ms
control version of the switch operating mechanism	Standard A1 - A2
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 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	ridally outlaining par roo minion (17 V, 1 mr.)
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	477 A
at 400 V rated value at 600 V rated value	472 A
yielded mechanical performance [hp]	472 K
• for 3-phase AC motor	450 ha
— at 200/208 V rated value	150 hp
— at 220/230 V rated value	200 hp
— at 460/480 V rated value	400 hp
— at 575/600 V rated value	500 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	0.000 / /000 / /000 / /
— with type of coordination 1 required	gG: 630 A (690 V, 100 kA)
 — with type of assignment 2 required 	gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA)
for short-circuit protection of the auxiliary switch required	gG: 10 A (500 V, 1 kA)
Installation/ mounting/ dimensions	90. 10 h (000 v, 1 hh)
	with vertical mounting ourface 1/ 00° rate able with vertical mounting ourface
mounting position	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back
fastening method	screw fixing
fastening method side-by-side mounting	Yes
height	214 mm
width	160 mm
depth	225 mm
·	LEV IIIII
required spacing	

finely stranded with core end processing	0.5 2.5 mm²
 finely stranded with core end processing 	0.5 2.5 mm²
 solid or stranded 	0.5 4 mm²
	0.5 4 mm²
connectable conductor cross-section for auxiliary contacts	
connectable conductor cross-section for auxiliary contacts	
connectable conductor cross-section for auxiliary contacts	
connectable conductor cross-section for auxiliary contacts	
	70 240 MM ⁻
	70 240 mm²
• stranded	70 240 mm²
	70 240 mm²
	70 240 IIIII ⁻
	70210.11111
connectable conductor cross-section for auxiliary contacts	
connectable conductor cross-section for auxiliary contacts	
	0.5 42
 solid or stranded 	0.5 4 mm²
 finely stranded with core end processing 	0.5 2.5 mm²
·	0.5 2.5 mm²
type of connectable conductor cross-sections	
••	
for auxiliary contacts	
	2v (0.5 4.5 mans2) 2v (0.75 2.5 mans2) mass 2v (0.75 4 mans2)
— 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	
for auxiliary contacts	18 14
·	18 14
Safety related data	
product function	
1	N.
 mirror contact according to IEC 60947-4-1 	Yes
 positively driven operation according to IEC 60947-5-1 	No
suitability for use safety-related switching OFF	Yes; applies only to contactor operating mechanism
B10 value with high demand rate according to SN 31920	1 000 000
IEC 61508	
■ for proof test interval or service life according to IEC 61508	20 a
Electrical Safety	
protection class IP on the front according to IEC 60529	IP00; IP20 with box terminal/cover
protection class if on the front according to 120 00025	
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front with box terminal/cover









Confirmation



General Product Approval

Functional Saftey

Test Certificates

Marine / Shipping



Type Examination Certificate Special Test Certificate

Type Test Certificates/Test Report





Marine / Shipping

other







Miscellaneous

Confirmation

Miscellaneous

other

Railway

Environment

Confirmation

Special Test Certific-

ate

EPD Typ II/III (with life cylce assessment)

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=3RT1076-6AR36

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1076-6AR36

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1076-6AR36

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

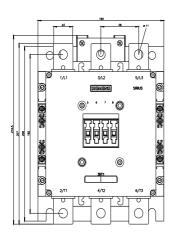
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1076-6AR36&lang=en

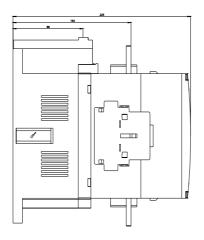
Characteristic: Tripping characteristics, I^2t , Let-through current

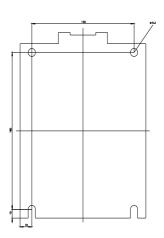
https://support.industry.siemens.com/cs/ww/en/ps/3RT1076-6AR36/char

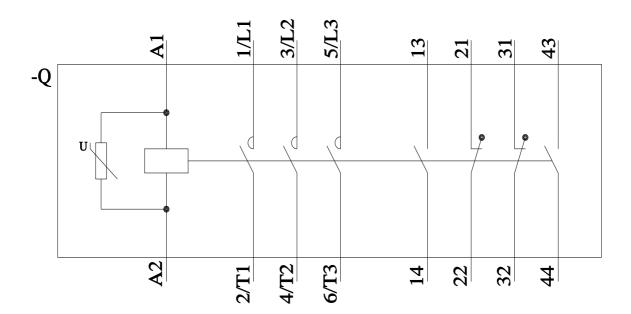
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1076-6AR36&objecttype=14&gridview=view1









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