SIEMENS

Product data sheet 3RT1076-2NP36



CONTACTOR, 250KW/400V/AC-3 AC(40...60HZ)/DC OPERATION UC 200-277V AUXILIARY CONTACTS 2NO+2NC 3-POLE, SIZE S12 BAR CONNECTIONS ELECTRONIC OPERATING MECHANISM WITH 24 V DC PLC INTERFACE CAGE CLAMP TERMINAL

General technical data:		
product brand name		SIRIUS
Size of contactor		S12
Protection class IP / on the front		IP00
Degree of pollution		3
Installation altitude / at height above sea level / maximum	m	2,000
Ambient temperature		
during operation	°C	-25 +60
Mechanical service life (switching cycles)		
of the contactor / typical		10,000,000
of the contactor with added auxiliary switch block / typical		10,000,000
 of the contactor with added electronics-compatible auxiliary switch block / typical 		5,000,000

Main circuit:		
Number of NC contacts / for main contacts		0
Number of NO contacts / for main contacts		3
Operating current		
• at AC-1 / up to 690 V		
• at ambient temperature 40 °C / Rated value	Α	610
• at ambient temperature 60 °C / Rated value	Α	550

- at AC-4 / at 400 V / Rated value Operating current / for ≥ 20000 operating cycles / at AC-4 - at 400 V / Rated value - at 100 V / Rated value - with 1 current path / at DC-1 - at 24 V / Rated value - at 1110 V / Rated value - at 1110 V / Rated value - at 110 V / Rated value - at 110 V / Rated value - at 124 V / Rated value - at 110 V / Rated value - at 110 V / Rated value - at 110 V / Rated value - at 124 V / Rated value - at 24 V / Rated value - at 24 V / Rated value - at 24 V / Rated value - at 110 V / Rated value - at 100 V / Rated value - at 100 V / Rated value - at 100 V / Rated value - at 400 V / Rated v	• at AC-3 / at 400 V / Rated value	Α	500
- at 400 V / Rated value	• at AC-4 / at 400 V / Rated value	Α	430
- at 690 V / Rated value Operating current - with 1 current path / at DC-1 - at 24 V / Rated value - at 110 V / Rated value - at 110 V / Rated value - at 12 V / Rated value - with 3 current paths in series / at DC-1 - at 24 V / Rated value - with 1 Current path / at DC-3 / at DC-5 - at 24 V / Rated value - at 110 V / Rated value - at 400 V / Rated value - at 600 V / Rated value - at 600 V / Rated value - at 400 V / Rated val	Operating current / for ≥ 200000 operating cycles / at AC-4		
Operating current - with 1 current path / at DC-1 - at 24 V/ Rated value A 400 - at 110 V/ Rated value A 33 - with 2 current paths in series / at DC-1 - at 24 V/ Rated value A 400 - with 3 current paths in series / at DC-1 - at 24 V/ Rated value A 400 - with 3 current paths in series / at DC-1 A 400 - at 110 V/ Rated value A 400 - with 1 current path / at DC-3 / at DC-5 - at 24 V / Rated value A 400 - with 2 current paths in series / at DC-3 / at DC-5 - at 24 V / Rated value A 400 - with 2 current paths in series / at DC-3 / at DC-5 - at 24 V / Rated value A 400 - with 3 current paths in series / at DC-3 / at DC-5 - at 24 V / Rated value A 400 - with 3 current paths in series / at DC-3 / at DC-5 - at 24 V / Rated value A 400 - at 40 V / Rated value A 400 400 - at 40 V / Rated value KW 362 - at 400 V / Rated value kW 291 - at 400 V / Rated va	• at 400 V / Rated value	Α	175
- with 1 current path / at DC-1 - at 24 V / Rated value - at 110 V / Rated value - at 110 V / Rated value - at 110 V / Rated value - at 24 V / Rated value - at 110 V / Rated value - at 110 V / Rated value - with 3 current paths in series / at DC-1 - at 24 V / Rated value - with 3 current paths in series / at DC-1 - at 24 V / Rated value - at 110 V / Rated value - at 110 V / Rated value - with 1 current path / at DC-3 / at DC-5 - at 24 V / Rated value - at 110 V / Rated value - at 124 V / Rated value - at 125 V / R	• at 690 V / Rated value	Α	150
- at 24 V / Rated value - at 110 V / Rated value - at 110 V / Rated value - at 24 V / Rated value - at 110 V / Rated value - at 140 V / Rated value - at 180 V / Rated value - at 180 V / Rated value - at 80 V / Rated value - at 400 V / Rated value	Operating current		
• at 110 V / Rated value A 33 • with 2 current paths in series / at DC-1 A 400 • at 110 V / Rated value A 400 • with 3 current paths in series / at DC-1 A 400 • at 110 V / Rated value A 400 Operating current A 400 • with 1 current path / at DC-3 / at DC-5 A 400 • at 24 V / Rated value A 400 • at 110 V / Rated value A 3 • with 2 current paths in series / at DC-3 / at DC-5 A 400 • at 24 V / Rated value A 400 • at 110 V / Rated value A 400 • with 3 current paths in series / at DC-3 / at DC-5 A 400 • at 24 V / Rated value A 400 • at 110 V / Rated value A 400 • at AC-1 A 400 • at AC-2 A 400 • at AC-3 A 400 • at AC-4 A 400 • at AC-4 A 400 • at AC-4 A 400 • at AC-4 <td>• with 1 current path / at DC-1</td> <td></td> <td></td>	• with 1 current path / at DC-1		
• with 2 current paths in series / at DC-1 • at 24 V / Rated value A 400 • at 110 V / Rated value A 400 • with 3 current paths in series / at DC-1 A 400 • at 24 V / Rated value A 400 • at 110 V / Rated value A 400 • with 1 current path / at DC-3 / at DC-5 - at 24 V / Rated value • at 110 V / Rated value A 3 • with 2 current paths in series / at DC-3 / at DC-5 - at 24 V / Rated value • at 24 V / Rated value A 400 • at 110 V / Rated value A 400 • with 3 current paths in series / at DC-3 / at DC-5 - at 400 • at 24 V / Rated value A 400 • with 3 current paths in series / at DC-3 / at DC-5 - at 400 • at 24 V / Rated value A 400 • at 110 V / Rated value A 400 • at AC-1 • at AC-1 • at AC-2 • at 400 V / Rated value kW 291 • at AC-3 • at 400 V / Rated value kW 363 • at 500 V / Rated value kW 363 • at 400 V / Rated value kW 291 • at 400 V / Rated value kW 250,000 Operating power / for ≥ 200000 operating cycles / at AC-4	• at 24 V / Rated value	Α	400
• at 24 V / Rated value A 400 • with 3 current paths in series / at DC-1 • at 110 V / Rated value A 400 • at 110 V / Rated value A 400 • at 110 V / Rated value A 400 Operating current • with 1 current path / at DC-3 / at DC-5 A 400 • at 24 V / Rated value A 400 • at 110 V / Rated value A 400 • with 2 current paths in series / at DC-3 / at DC-5 A 400 • with 3 current paths in series / at DC-3 / at DC-5 A 400 • with 3 current paths in series / at DC-3 / at DC-5 A 400 • with 3 current paths in series / at DC-3 / at DC-5 A 400 • with 3 current paths in series / at DC-3 / at DC-5 A 400 • at 24 V / Rated value A 400 • at 40.7 / Rated value KW 362 • at AC-1 • at 400 V / Rated value KW 291 • at 400 V / Rated value KW 291 • at 690 V / Rated value KW 453 • at 400 V / Rated value W 250,000	• at 110 V / Rated value	Α	33
• at 110 V / Rated value A 400 • with 3 current paths in series / at DC-1 • at 24 V / Rated value A 400 Operating current • with 1 current path / at DC-3 / at DC-5 • at 24 V / Rated value A 400 • at 110 V / Rated value A 3 • with 2 current paths in series / at DC-3 / at DC-5 A 400 • at 24 V / Rated value A 400 • with 3 current paths in series / at DC-3 / at DC-5 A 400 • with 3 current paths in series / at DC-3 / at DC-5 A 400 • with 3 current paths in series / at DC-3 / at DC-5 A 400 • at 24 V / Rated value A 400 • at 110 V / Rated value A 400 • at 400 V / Rated value KW 362 • at AC-2 • at 400 V / Rated value kW 291 • at 400 V / Rated value kW 291 • at 690 V / Rated value kW 453 • at 400 V / Rated value W 250,000 Operating power / for ≥ 200000 operating cycles / at AC-4 W 250,000	• with 2 current paths in series / at DC-1		
• with 3 current paths in series / at DC-1 • at 24 V / Rated value A 400 • at 110 V / Rated value A 400 Operating current • with 1 current path / at DC-3 / at DC-5 4 400 • at 24 V / Rated value A 3 • with 2 current paths in series / at DC-3 / at DC-5 4 400 • at 110 V / Rated value A 400 • at 110 V / Rated value A 400 • with 3 current paths in series / at DC-3 / at DC-5 4 400 • at 24 V / Rated value A 400 • at 110 V / Rated value A 400 • at 110 V / Rated value A 400 • at AC-1 4 400 V / Rated value • at AC-2 4 400 V / Rated value • at AC-3 4 400 V / Rated value • at 400 V / Rated value kW 291 • at 400 V / Rated value kW 363 • at 400 V / Rated value kW 363 • at AC-4 4 400 V / Rated value • at 400 V / Rated value kW 250,000 Operating power / for ≥ 200000 operating cycles / at AC-4 • at 400 V / Rated value KW 98	• at 24 V / Rated value	Α	400
- at 24 V / Rated value - at 110 V / Rated value Operating current - with 1 current path / at DC-3 / at DC-5 - at 24 V / Rated value - at 110 V / Rated value - at 110 V / Rated value - with 2 current paths in series / at DC-3 / at DC-5 - at 24 V / Rated value - at 110 V / Rated value - at 110 V / Rated value - with 3 current paths in series / at DC-3 / at DC-5 - at 24 V / Rated value - with 3 current paths in series / at DC-3 / at DC-5 - at 24 V / Rated value - at 110 V / Rated value - at 110 V / Rated value - at 400 V / Rated value - at AC-1 - at 400 V / Rated value - at AC-2 - at 400 V / Rated value - at AC-3 - at 400 V / Rated value - at 500 V / Rated value - at 690 V / Rated value - at AC-4 - at 400 V / Rated value - at AC-4 - at 400 V / Rated value - wW 250,000 Operating power / for ≥ 200000 operating cycles / at AC-4 - at 400 V / Rated value - wW 98	• at 110 V / Rated value	Α	400
• at 110 V / Rated value A 400 Operating current • with 1 current path / at DC-3 / at DC-5 4 24 V / Rated value A 400 • at 110 V / Rated value A 3 • with 2 current paths in series / at DC-3 / at DC-5 4 400 • at 110 V / Rated value A 400 • with 3 current paths in series / at DC-3 / at DC-5 4 400 • at 24 V / Rated value A 400 • at 110 V / Rated value A 400 • at 110 V / Rated value A 400 • at AC-1 4 400 • at AC-2 4 400 V / Rated value 4 • at AC-3 4 400 V / Rated value 4 • at 400 V / Rated value 4 291 • at 500 V / Rated value 4 453 • at AC-4 4 400 V / Rated value • at 400 V / Rated value 4 453 • at AC-4 4 4 4 • at 400 V / Rated value 4 4 4 • at 400 V / Rated value 4 4 4 • at 400 V / Rate	• with 3 current paths in series / at DC-1		
Operating current • with 1 current path / at DC-3 / at DC-5 • at 24 V / Rated value A 400 • at 110 V / Rated value A 3 • with 2 current paths in series / at DC-3 / at DC-5 - at 24 V / Rated value • at 110 V / Rated value A 400 • with 3 current paths in series / at DC-3 / at DC-5 - at 24 V / Rated value • at 24 V / Rated value A 400 • at 110 V / Rated value A 400 • at 110 V / Rated value KW 362 • at AC-1 • at 400 V / Rated value • at AC-2 • at 400 V / Rated value • at AC-3 • at 400 V / Rated value • at 500 V / Rated value kW 291 • at 690 V / Rated value kW 363 • at AC-4 • at 400 V / Rated value • at AC-4 • at 400 V / Rated value • at 400 V / Rated value W 250,000 Operating power / for ≥ 200000 operating cycles / at AC-4 • at 400 V / Rated value	at 24 V / Rated value	Α	400
 with 1 current path / at DC-3 / at DC-5 at 24 V / Rated value at 110 V / Rated value with 2 current paths in series / at DC-3 / at DC-5 at 24 V / Rated value at 110 V / Rated value at 110 V / Rated value with 3 current paths in series / at DC-3 / at DC-5 at 24 V / Rated value with 3 current paths in series / at DC-3 / at DC-5 at 24 V / Rated value A 400 at 110 V / Rated value A 400 A 400 Operating power at AC-1 at 400 V / Rated value wW 362 at AC-2 at 400 V / Rated value wW 291 at AC-3 at 400 V / Rated value wW 363 at 690 V / Rated value wW 453 at AC-4 at 400 V / Rated value wW 250,000 Operating power / for ≥ 200000 operating cycles / at AC-4 at 400 V / Rated value kW 98 	• at 110 V / Rated value	Α	400
• at 24 V / Rated value • at 110 V / Rated value • at 110 V / Rated value • at 110 V / Rated value • with 2 current paths in series / at DC-3 / at DC-5 • at 24 V / Rated value • at 110 V / Rated value • with 3 current paths in series / at DC-3 / at DC-5 • at 24 V / Rated value • at 110 V / Rated value • at 110 V / Rated value • at 400 V / Rated value • at 4C-1 • at 400 V / Rated value • at 4C-2 • at 400 V / Rated value • at 500 V / Rated value • at 690 V / Rated value • at 690 V / Rated value • at 400 V / Rated value	Operating current		
 • at 110 V / Rated value • with 2 current paths in series / at DC-3 / at DC-5 • at 24 V / Rated value • at 110 V / Rated value • with 3 current paths in series / at DC-3 / at DC-5 • at 24 V / Rated value • at 110 V / Rated value • at 110 V / Rated value A 400 Operating power • at AC-1 • at 400 V / Rated value • at AC-2 • at 400 V / Rated value • at AC-3 • at 400 V / Rated value • at 500 V / Rated value • at 690 V / Rated value • at AC-4 • at 400 V / Rated value 	• with 1 current path / at DC-3 / at DC-5		
 with 2 current paths in series / at DC-3 / at DC-5 at 24 V / Rated value at 110 V / Rated value with 3 current paths in series / at DC-3 / at DC-5 at 24 V / Rated value at 110 V / Rated value A 400 A 400 Operating power at AC-1 at 400 V / Rated value b 4 400 V / Rated value at AC-3 at 400 V / Rated value at 500 V / Rated value at 690 V / Rated value at 690 V / Rated value at 400 V / Rated value at 400 V / Rated value at 690 V / Rated value at 400 V / Rated value 	at 24 V / Rated value	Α	400
 at 24 V / Rated value at 110 V / Rated value with 3 current paths in series / at DC-3 / at DC-5 at 24 V / Rated value at 110 V / Rated value A 400 Operating power at AC-1 at 400 V / Rated value kW 362 at AC-2 at 400 V / Rated value kW 291 at AC-3 at 400 V / Rated value kW 291 at 500 V / Rated value at 690 V / Rated value at 690 V / Rated value at 400 V / Rated value at 400 V / Rated value kW 363 at 690 V / Rated value at 400 V / Rated value kW 453 at 400 V / Rated value kW 250,000 Operating power / for ≥ 200000 operating cycles / at AC-4 at 400 V / Rated value kW 98 	• at 110 V / Rated value	Α	3
 at 110 V / Rated value with 3 current paths in series / at DC-3 / at DC-5 at 24 V / Rated value at 110 V / Rated value A 400 A 400 Operating power at AC-1 at 400 V / Rated value kW 362 at AC-2 at 400 V / Rated value kW 291 at AC-3 at 400 V / Rated value kW 363 at 500 V / Rated value at 690 V / Rated value at AC-4 at 400 V / Rated value W 250,000 Operating power / for ≥ 200000 operating cycles / at AC-4 at 400 V / Rated value kW 98 	• with 2 current paths in series / at DC-3 / at DC-5		
 with 3 current paths in series / at DC-3 / at DC-5 at 24 V / Rated value at 110 V / Rated value A 400 A 400 Operating power at AC-1 at 400 V / Rated value kW 362 at AC-2 at 400 V / Rated value kW 291 at AC-3 at 400 V / Rated value kW 291 at 500 V / Rated value kW 363 at 690 V / Rated value kW 453 at AC-4 at 400 V / Rated value w 250,000 Operating power / for ≥ 200000 operating cycles / at AC-4 at 400 V / Rated value kW 98 	at 24 V / Rated value	Α	400
 at 24 V / Rated value at 110 V / Rated value A 400 Operating power at AC-1 at 400 V / Rated value at AC-2 at 400 V / Rated value at 400 V / Rated value at 400 V / Rated value at 500 V / Rated value at 690 V / Rated value at 400 V / Rated value w 363 at 690 V / Rated value w 453 at 400 V / Rated value w 250,000 Operating power / for ≥ 200000 operating cycles / at AC-4 at 400 V / Rated value kW 98 	• at 110 V / Rated value	Α	400
• at 110 V / Rated value A 400 • at AC-1 • at 400 V / Rated value kW 362 • at AC-2 • at 400 V / Rated value kW 291 • at AC-3 • at 400 V / Rated value kW 291 • at 500 V / Rated value kW 363 • at 690 V / Rated value kW 453 • at AC-4 • at 400 V / Rated value W 250,000 Operating power / for ≥ 200000 operating cycles / at AC-4 • at 400 V / Rated value kW 98	• with 3 current paths in series / at DC-3 / at DC-5		
Operating power • at AC-1 • at 400 V / Rated value kW 362 • at AC-2 • at 400 V / Rated value • at AC-3 * at 400 V / Rated value • at 500 V / Rated value kW 291 • at 500 V / Rated value kW 363 • at 690 V / Rated value kW 453 • at AC-4 * at 400 V / Rated value • at 400 V / Rated value W 250,000 Operating power / for ≥ 200000 operating cycles / at AC-4 * at 400 V / Rated value	at 24 V / Rated value	Α	400
 at AC-1 at 400 V / Rated value at AC-2 at 400 V / Rated value at AC-3 at 400 V / Rated value at 500 V / Rated value at 690 V / Rated value at AC-4 at 400 V / Rated value Operating power / for ≥ 200000 operating cycles / at AC-4 at 400 V / Rated value kW 98 	• at 110 V / Rated value	Α	400
 at 400 V / Rated value at AC-2 at 400 V / Rated value at AC-3 at 400 V / Rated value at 500 V / Rated value at 690 V / Rated value at AC-4 at 400 V / Rated value w 250,000 Operating power / for ≥ 200000 operating cycles / at AC-4 at 400 V / Rated value kW 98 	Operating power		
 at AC-2 at 400 V / Rated value at AC-3 at 400 V / Rated value at 500 V / Rated value at 690 V / Rated value at AC-4 at 400 V / Rated value AC-4 at 400 V / Rated value Operating power / for ≥ 200000 operating cycles / at AC-4 at 400 V / Rated value kW 98 	• at AC-1		
• at 400 V / Rated value	at 400 V / Rated value	kW	362
 at AC-3 at 400 V / Rated value at 500 V / Rated value at 690 V / Rated value at AC-4 at 400 V / Rated value W 291 kW 363 at 53 kW 453 at AC-4 at 400 V / Rated value W 250,000 Operating power / for ≥ 200000 operating cycles / at AC-4 at 400 V / Rated value kW 98 	• at AC-2		
 at 400 V / Rated value at 500 V / Rated value at 690 V / Rated value at AC-4 at 400 V / Rated value 	• at 400 V / Rated value	kW	291
 at 500 V / Rated value at 690 V / Rated value at AC-4 at 400 V / Rated value W 250,000 Operating power / for ≥ 200000 operating cycles / at AC-4 at 400 V / Rated value kW 98 	• at AC-3		
• at 690 V / Rated value kW 453 • at AC-4 W 250,000 Operating power / for ≥ 200000 operating cycles / at AC-4 • at 400 V / Rated value kW 98	• at 400 V / Rated value	kW	291
• at AC-4 • at 400 V / Rated value Operating power / for ≥ 200000 operating cycles / at AC-4 • at 400 V / Rated value kW 98	• at 500 V / Rated value	kW	363
• at 400 V / Rated value W 250,000 Operating power / for ≥ 200000 operating cycles / at AC-4 • at 400 V / Rated value kW 98	• at 690 V / Rated value	kW	453
Operating power / for ≥ 200000 operating cycles / at AC-4 • at 400 V / Rated value kW 98	• at AC-4		
• at 400 V / Rated value kW 98	• at 400 V / Rated value	W	250,000
	Operating power / for ≥ 200000 operating cycles / at AC-4		
• at 690 V / Rated value kW 148	• at 400 V / Rated value	kW	98
	• at 690 V / Rated value	kW	148

Active power loss / at AC-3 / at 400 V / for rated value of the operating current / per conductor	W	55
	_	
Control circuit/ Control:		
Design of the surge suppressor	_	with varistor
Type of voltage / of the control supply voltage		AC/DC
Control supply voltage		
• for DC		
Rated value	V	200 277
• with AC / at 50 Hz		
Rated value	V	200 277
• with AC / at 60 Hz		
Rated value	V	200 277
Operating range factor control supply voltage rated value / of the magnet coil		
• with AC / at 50 Hz		0.8 1.1
• with AC / at 60 Hz		0.8 1.1
• for DC		0.8 1.1
Apparent pick-up power / of the magnet coil / with AC	V·A	750
Apparent holding power / of the magnet coil / with AC	V·A	7
Inductive power factor		
with closing power of the coil		0.8
with the holding power of the coil		0.8
Closing power / of the magnet coil / for DC	W	800
Holding power / of the magnet coil / for DC	W	5
Auxiliary circuit:		
Number of NC contacts / for auxiliary contacts / instantaneous contact		2
Number of NO contacts / for auxiliary contacts / instantaneous contact		2
Operating current		
• at AC-12 / maximum	Α	10
• at AC-15		
• at 230 V / Rated value	Α	6
• at 400 V / Rated value	Α	3
Operating current / at DC-12		
• at 60 V / Rated value	Α	6
• at 110 V / Rated value	Α	3
• at 220 V / Rated value	A	1

Operating current / at DC-13
• at 24 V / Rated value

Α

10

• at 60 V / Rated value	Α	2
• at 110 V / Rated value	Α	1
• at 220 V / Rated value	Α	0.3

Short-circuit:		
Design of the fuse link		
• for short-circuit protection of the auxiliary switch / required	fuse gL/gG: 10 A	
for short-circuit protection of the main circuit		
 with type of assignment 1 / required 	fuse gL/gG: 630 A	
• with type of assignment 2 / required	fuse gL/gG: 500 A	

Installation/ mounting/ dimensions:		
Mounting type		screw fixing
Mounting type / Side-by-side mounting		Yes
Width	mm	160
Height	mm	214
Depth	mm	225
Spacing required / for grounded parts	mm	10

Connections/ terminals:	
Design of the electrical connection	
for main current circuit	Cage Clamp terminals
for auxiliary and control current circuit	Cage Clamp terminals
Type of connectable conductor cross-section	
for AWG conductors / for main contacts	2/0 500 kcmil
for auxiliary contacts	
• solid	2x (0.25 2.5 mm²)
finely stranded	
with core end processing	2x (0.25 1.5 mm²)
without core end processing	2x (0.25 2.5 mm²)
for AWG conductors / for auxiliary contacts	2x (24 14)

Certificates/ approvals:

General Product Approval

Functional Safety / Safety of Machinery Declaration of Conformity

Type Examination



<u>(W</u>







Test Certificates

Shipping Approval

Special Test Certificate







other

Confirmation

other

Environmental Confirmations

Further information:

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

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

http://www.siemens.com/industrymall

Cax online generator

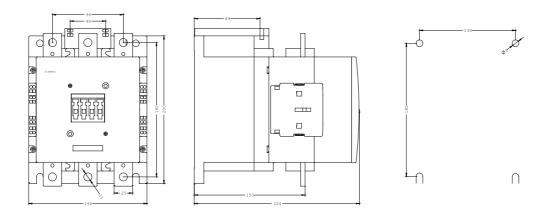
http://www.siemens.com/cax

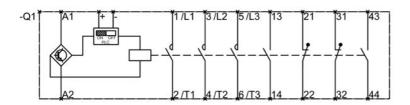
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

http://support.automation.siemens.com/WW/view/en/3RT1076-2NP36/all

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RT1076-2NP36





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