



Interruptor termomagnético 2P
SolarOne Fotovoltáico - RielDIN

Application

ITM DC Breaker supplementary protectors are designed to provide overcurrent protection within appliances or electrical equipment, where a branch circuit protection is already provided or not required.

Specifications

Interruptor Termomagnético CD		ITM	
Frame Degree Rated Current (A)		63	
Pole		2P	4P
Rated Operating Voltage (VDC)		800 / 1000	1000
Rated Insulation Voltage Ui (VDC)		2P 800V / 2P 1000V / 4P 1200V	
Rated Current In (A)		2P 800V 16,20,25,32,40A 2P 1000V 20,25,32A 4P 1200V 20,25,32A	
Rated Impact Voltage Uimp (kV)		4	
Ultimate Breaking Capacity Icu (kA)		6	
Run Breaking Capacity Ics (%Icu)		75%	
Curve Type		C	
Trip Type		Thermal - Magnetic	
Mechanical	Actual average size	9700	
	Standard value	9700	
Electric	Actual average size	300	
	Standard value	300 (accord to TUV standard)	

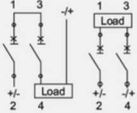
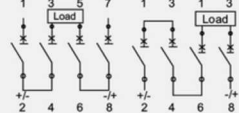
Condition and Installation

Wiring capacity (mm ²)		In ≤ 32A, 1-6, I ≥ 40A, 10-16			
Ambient temperature (°C)		-35~+70			
Altitude		≤ 2000			
Relative humidity		≤ 95%			
Pollution Level		3			
Installation Environment		No obvious shock and vibration			
Installation category		Class III			
Installation		DIN Standard rail			
Dimensions (W)x(H)x(Deep)	W	18	36	54	72
	H	80	80	80	80
	Deep	71	71	71	71
Weight (kg)		0.12	0.24	0.36	0.48



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Connection

Pole	2P	4P
Connection		

Over current tripping characteristic

Test	Test Current	Initial State	Limited Time	Expected Result	Remarks
a	$1.05I_n$	Cold state	$t \geq 1h$	Non - tripping	The current is rising within 5s
b	$1.3I_n$	Right after test number a	$t < 1h$	Tripping	
c	$7I_n$	Cold state	$t \leq s$	Non - tripping	
d	$10I_n$	Cold state	$t \leq 0.1s$	Tripping	

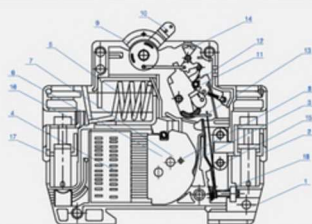
Current correction values used at different ambient temperatures

Temperature Fixed Current (A) Rated Current (A)	-35	-30	-20	-10	0	10	20	30	40	50	60	70
3A	3.9	3.78	3.69	3.57	3.42	3.3	3.12	3	2.88	2.79	2.64	2.49
6A	7.8	7.56	7.38	7.14	6.84	6.6	6.24	6	5.76	5.64	5.28	4.98
10A	13.2	12.7	12.5	12	11.5	11.1	10.6	10	9.6	9.3	8.9	8.4
16A	21.12	20.48	20	19.2	18.4	17.76	16.96	16	15.36	14.88	14.24	13.44
20A	26.4	26.4	25	24	23	22.2	21.2	20	19.2	18.6	17.8	16.8
25A	33	32	31.25	30	28.75	27.75	26.5	25	24	23.25	22.25	21
32A	42.56	41.28	40	38.72	37.12	35.52	33.93	32	30.72	29.76	28.16	26.88
40A	53.2	51.2	50	48	46.4	44.8	42.4	40	38.4	37.2	35.6	33.6
50A	67	65.5	63	60.5	58	56	53	50	48	46.5	44	41.5
63A	83.79	81.9	80.08	76.86	73.71	70.56	66.78	63	60.48	58.9	55.44	52.29

Current correction factor used at different altitudes

Rated Current (A)	Different altitude correction factors		
	$\leq 2000m$	2000 ~ 3000m	$\geq 3000m$
16,20,25,32,40A	1.0	0.9	0.8

Details

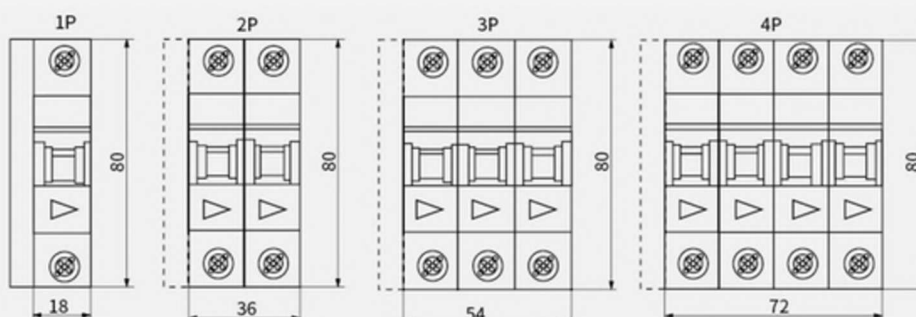


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|---------------------|------------------------|
| 1. Shell | 10. Handle |
| 2. Wiring board | 11. Lock catch knuckle |
| 3. Static Contact | 12. Tripping chain |
| 4. Arc chamber | 13. Jump pin |
| 5. Copper coil | 14. Indicator |
| 6. Insulation plate | 15. Bimetal |
| 7. Moving contact | 16. Soft linking |
| 8. Fixed contact | 17. Wiring board |
| 9. Spring | 18. Adjusting screw |

Specifications

Rated current I_n (A)	Copper wire nominal cross sectional area (mm ²)
3,6	1
10	1.5
16,20	2.5
25	4
32	6
40,50	10
63	16

Dimensions (mm)



Characteristic Curve

