


G9 SERIES

Miniature Circuit Breaker



G9 Series	Miniature Circuit Breaker
Standard	EN/IEC 60898-1
Breaking capacity(kA)	10
Protection	Against overload and short circuit
Rated current(A) In	1,2,3,4,6,10,13,16,20,25,32,40,50,63
Rated voltage(V)	1P AC 230/400,240/415
	1P+N,2P,3P,3P+N,4P AC 230/400,240/415
Rated impulse withstand voltage Uimp(kV)	4
Rated insulation voltage Ui(V)	500
Energy limiting class	3
Ambient temperature (°C)	-20~+40,Max.95%humidity
Thermal operating limit	1.13 xIn No tripping within an hour
	1.45 xIn Tripping within an hour
Magnetic operating	B:(3-5)xIn,C:(5-10)xIn,D:(10-20)xIn
Number of poles	1P,1P+N,2P,3P,3P+N and 4P
Type of trip	Thermal/ magnetic release
Terminal capacity	16mm ² flexible or 25mm ² rigid
Protection degree	IP20
Installation	Mounting on 35mm DIN rail
Width	17.8mm per pole
Certification	



G9-1P



G9-2P



G9-3P

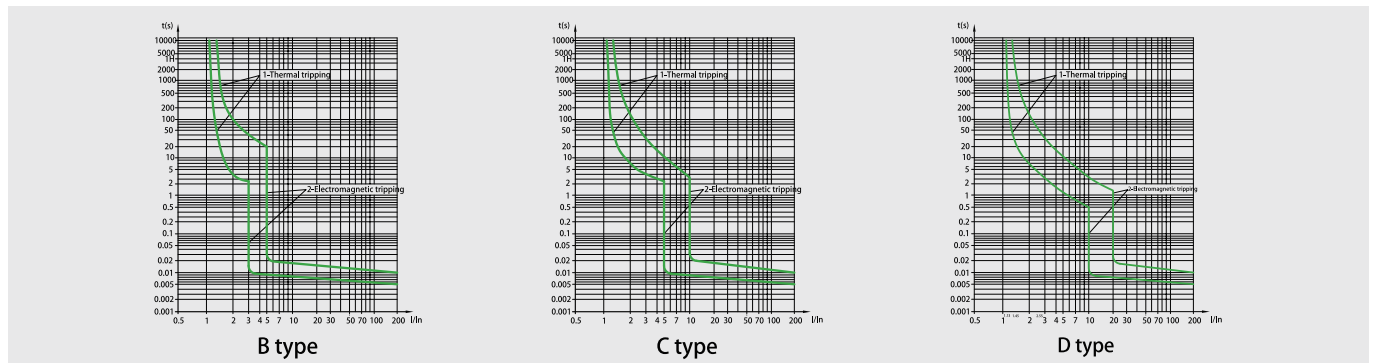


G9-4P

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Curves



Overcurrent protecting characteristics

NO.	Rated current of release(A)	Initial state	Test current	Specified time	Result to be obtained	Remarks
1	1-63	cold state	1.13In	$t \leq 1h$	Non-trip	
2	1-63	upon the previous test	1.45In	$t < 1h$	trip	Setting current up to specified value steadily in 5s
3	$In \leq 32$ $In > 32$	cold state	2.55In	$1s < t < 60s$ $1s < t < 120s$	trip	
4	1-63	cold state	3In 5In 5In 10In 10In 20In	$t \leq 0.1s$ $t < 0.1s$ $t \leq 0.1s$ $t < 0.1s$ $t \leq 0.1s$ $t < 0.1s$	Non-trip trip Non-trip trip Non-trip trip	B type B type C type C type D type D type

Design verification as per IEC/EN 61439 - Technical data

Rated operational current for specified heat dissipation (I_n)	1-63A
Heat dissipation per pole, current-dependent	0 W
Equipment heat dissipation, current-dependent	
$I_n \leq 10$	3W
$10 < I_n \leq 16$	3.5W
$16 < I_n \leq 25$	4.5W
$25 < I_n \leq 32$	6W
$32 < I_n \leq 40$	7,5W
$40 < I_n \leq 50$	9W
$50 < I_n \leq 63$	13W
Static heat dissipation, non-current-dependent	0 W
Heat dissipation capacity	0 W
Ambient operating temperature - min	-25°C
Ambient operating temperature - max	+75°C

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Endurance(operations)

Category	Operations	Operation frequency	Rated current
Electrical endurance	4000	240/h	1-32
		120/h	40-63
Mechanical endurance	10000	240/h	1-63

Features

Much higher short circuit breaking capacity, Dual-connection convenient for both standard busbar and conductor connection. Improved safety of operators offered by special design from terminals. Much longer service life thanks to energy-storage operating mechanism. Enclosure and functional parts made from imported plastics with flame-retardant, heat-resistant, and impulse-proof properties. Higher current-limiting capacity ensuring a cost-effective range of products. Different handle color for different rated current with contactor condition indicator.

Overall and mounting dimensions

