

HGD63N

HGD Miniature Circuit Breaker

Electric distribution needs are continuously evolving in residential, commercial and industrial sectors. Improved operational safety, continuity of service, greater convenience and operating cost have assumed a tremendous significance. Miniature circuit breakers have been designed to continuously adapt to these changing needs.

HGD PRO Type



Product Features

HGD series MCBs rating covers from 0.5 A to 125 A. The range offers a variety of feature benefits such as uniform breaking capacity of 10 kA across entire range in accordance with IEC/EN 60898-1and IEC/EN 60947-2. HGD also incorporates features like inscription window, safety terminal, large cable terminals, bi stable clip, positive contact indication and field fittable AUX, ALT, SHT, UVT, OVT.

PRO Type

- 🖄 Product Performance - Low power consumption, thus cost effect saving - Longer electrical life
 - Energy limiting class 3 to ensure low let energy to limit thermal & mechanical stre



- Easy DIN-Rail extraction

- Precise hammer action

- 13 plates arc chute for effective arc quenc - Dual termination for bus-bar as well as ca
- connection - Trip free mechanism: MCB trips even if he
- position
- Selectable AUX/ALT with knob - Available with enclosure (Option-IP40)
- Specification

Accessories

- IEC 60898-2 for DC application - IEC 60947-2 for industrial application - IEC 60898-1 for household application

Product Overview



Deluxe Type (6 kA, 10 kA)

Standard Type

tive & energy	 Compact structure and external design. Customers can choose between deluxe type and standard type depending on the need for inscription window 		
through ress on cables.	 Under the standard of IEC 60898-1, all ranges are available with a short circuit capacity of 3 kA~10 kA and 		
	it is designed to use both pin type and fork type busbar		
	- 13 plates arc chute for effective arc quenching		
	- Dual termination for bus-bar as well as cable		
nching	connection		
cable	 Trip free mechanism: MCB trips even if held in ON position 		
eld in ON			
	- AUX, ALT, SHT, UVT options are available.		
	- SHT with AUX function together		

- IEC 60898-1 for household application



Standard Type (3 kA, 4.5 kA, 6 kA, 10 kA)

Selection Table

HGD (PRO Type)

Model	HGD63N, 63 AF, 6 kA	HGD63H, 63 AF, 10 kA	HGD125, 125 AF, 10 kA
Reference Standard	IEC/EN 60898-1	IEC/EN 60898-1 ; IEC/EN 60947-2	IEC/EN 60947-2
No. of Poles	1P, 1P + N, 2P, 3P, 3P + N, 4P	1P, 1P + N, 2P, 3P, 3P + N, 4P	1P, 1P + N, 2P, 3P, 3P + N, 4P
Rated Current (In)	0.5, 1, 2, 3, 4, 5, 6, 10, 16, 20, 25, 32, 40, 50, 63 A	0.5, 1, 2, 3 4, 5, 6, 10, 16, 20, 25, 32, 40, 50, 63 A	80 A, 100 A, 125 A
Rated Voltage (Ue)	AC 240/415 V	AC 240/415 V	AC 240/415 V
Rated Frequency (F)	50/60 Hz	50/60 Hz	50/60 Hz
Rated Conditional Short Circuit Current (Inc)	6 kA (lcs=100 % lcn)	10 kA (Ics=100 % Icn)	10 kA (lcs=75 % lcn)
Magnetic Release Setting	(3-5) ln - B Curve (5-10) ln - C Curve (10-20) ln - D Curve	(3-5) ln - B Curve (5-10) ln - C Curve (10-20) ln - D Curve	(3-5) ln - B Curve (5-10) ln - C Curve (10-20) ln - D Curve
Rated Insulation Voltage (Ui)	500 V	500 V	690 V
Rated Impulse Voltage (Uimp)	4 kV	4 kV	4 kV
Dielectric Strength	2.5 kV	2.5 kV	2.5 kV
Electrical/Mechanical Endurance (no. of operations) Minimum	10,000/20,000	10,000/20,000	10,000/20,000
Operating Temperature	-5 °C to + 55 °C	-5 °C to + 55 °C	-5 °C to + 55 °C
Humidity	95 % RH	95 % RH	95 % RH
Energy Limit Class	3	3	3
Terminal Capacity (max)	35 mm ²	35 mm ²	50 mm ²
Tightening Torque	2 N·m	2 N·m	2.5 N·m
Vibration	3 g	3 g	3 g
Shock Resistance	40 mm free fall	40 mm free fall	40 mm free fall
Protection Class	IP20	IP20	IP20
Positive Contact Indication	Red-ON, Green-OFF	Red-ON, Green-OFF	Red-ON, Green-OFF
Net Weight/Pole in kg	0.125 kg	0.125 kg	0.150 kg
Dimensions (H x D x W)/Pole in mm	87.5 x 71.7 x 17.7 mm	87.5 x 71.7 x 17.7 mm	81 x 74.5 x 26.5 mm
Mounting	Clip on DIN Rail (35 mm x 7.5 mm)	Clip on DIN Rail (35 mm x 7.5 mm)	Clip on DIN Rail (35 mm x 7.5 mm)
Installation Position	Vertical/Horizontal	Vertical/Horizontal	Vertical/Horizontal
Case & Cover	Molded, flame-retardant thermoplastic material	Molded, flame-retardant thermoplastic material	Molded, flame-retardant thermoplastic material
Busbar Connections Top/Bottom Side	Pin/Fork type (Bottom)	Pin/Fork type (Bottom)	-
AUX/ALT/SHT/UVT/OVT	Yes	Yes	No

ℜ HGD63N, 63H The appearance are the same.