

LV & MV CIRCUIT BREAKERS



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MV		LV					
VC	VCB	MMS	TOR	MC	ACB	MCCB	MCB

کلید مینیاتوری سری HGD، کلید فشک سری HSD و کلید محافظ جان سری HRC

HGD



مدل ها: Deluxe, Standard
 استانداردها: IEC60898-1/ IEC60947-2
 حفاظت ها: اضافه بار، اتصال کوتاه
 تعداد پل ها: 1، 2، 3، 4، 1+N، 3+N
 ولتاژ عملکرد: ۲۴۰ تا ۴۱۵ ولت
 جریان نامی: ۱ تا ۱۲۵ آمپر
 قدرت قطع: ۳، ۴/۵، ۱۰، ۶ کیلو آمپر
 منحنی قطع: D, C, B

HSD



مدل ها: Deluxe, Standard
 استانداردها: IEC/EN60947-3
 حفاظت ها: ندارد
 تعداد پل ها: ۱، ۲، ۳، ۴
 ولتاژ عملکرد: ۲۴۰ تا ۴۱۵ ولت
 جریان نامی: ۱۶، ۲۰، ۲۵، ۳۰، ۴۰، ۶۳، ۸۰، ۱۰۰، ۱۲۵ آمپر

HRC



مدل ها: HRC (63,100)
 استانداردها: IEC/EN61008-1
 حفاظت ها: ناشتی جریان
 تعداد پل ها: (1+N) (3+N)
 ولتاژ عملکرد: ۲۴۰ تا ۴۱۵ ولت
 جریان نامی: ۱۶، ۲۵، ۳۰، ۴۰، ۶۳، ۸۰، ۱۰۰ آمپر
 جریان ناشتی: ۳۰۰، ۱۰۰۰، ۳۰۰۰، ۵۰۰۰ میلی آمپر

MV		LV					
VC	VCB	MMS	TOR	MC	ACB	MCCB	MCB

HGD (DeluxeType)

HGD سری

Model	HGD63N, 63 AF, 6 kA	HGD63H, 63 AF, 10 kA	HGD125, 125 AF, 10 kA
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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 (Icn)	6 kA (Ics=100 % Icn)	10 kA (Ics=100 % Icn)	10 kA (Ics=75 % Icn)
Magnetic Release Setting	(3-5) In - B Curve (5-10) In - C Curve (10-20) In - D Curve	(3-5) In - B Curve (5-10) In - C Curve (10-20) In - D Curve	(3-5) In - B Curve (5-10) In - C Curve (10-20) In - 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

※ HGD63N, 63H The appearance are the same.

HG-SERIES

MV		LV					
VC	VCB	MMS	TOR	MC	ACB	MCCB	MCB

HSD Type

HSD سری

Model	HSD63, 63 AF	HSD125, 125 AF
		
Reference Standard	IEC/EN 60947-3	IEC/EN 60947-3
No. of Poles	1P, 2P, 3P, 4P	1P, 2P, 3P, 4P
Utilization Category	AC-22 A	AC-22 A
Rated Current (In)	16, 25, 32, 40, 63 A	80, 100, 125 A
Rated Voltage (Ue)	AC 240/415 V	AC 240/415 V
Rated Frequency (F)	50/60 Hz	50/60 Hz
Rated Insulation Voltage (Ui)	500 V	500 V
Rated Impulse Voltage (Uimp)	4 kV	4 kV
Dielectric Strength	2.5 kV	2.5 kV
Electrical/Mechanical Endurance (no. of operations) Minimum	10,000/20,000	10,000/20,000
Operating Temperature	-5 °C to + 55 °C	-5 °C to + 55 °C
Humidity	95 % RH	95 % RH
Terminal Capacity (max)	35 mm ²	50 mm ²
Tightening Torque	2 N·m	2.5 N·m
Vibration	3 g	3 g
Shock Resistance	40 mm free fall	40 mm free fall
Protection Class	IP20	IP20
Positive Contact Indication	Red-ON, Green-OFF	Red-ON, Green-OFF
Net Weight/Pole in kg	0.090 kg	0.079 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
Mounting	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
Case & Cover	Molded, flame retardant thermoplastic material	Molded, flame retardant thermoplastic material
Busbar Connections	Pin/Fork type (Bottom)	Pin/Fork type (Bottom)

MV		LV					
VC	VCB	MMS	TOR	MC	ACB	MCCB	MCB

HRC Type

سری HRC

Model	HRC63, 63 AF	HRC100, 100 AF
		
Reference Standard	IEC/EN 61008-1	IEC/EN 61008-1
No. of Poles	2P (1P + N), 4P (3P + N)	2P (1P + N), 4P (3P + N)
Rated Current (In)	16, 25, 40, 50, 63 A	80, 100 A
Rated Voltage (Ue)	AC 240/415 V	AC 240/415 V
Rated Frequency (F)	50/60 Hz	50/60 Hz
Rated Conditional Short Circuit Current (Inc)	10 kA	10 kA
Rated Residual Operating Current (I _{Δc})	30, 100, 300	30, 100, 300
Rated Making Breaking Capacity (Im)	630 A or 10 In whichever is greater	630 A or 10 In whichever is greater
Operating Characteristics in Presence of Residual Current with d.c Components	A' type & 'AC' type	A' type & 'AC' type
Trip Time	1 I _{Δn} < 300 ms, 5 I _{Δn} < 40 ms	1 I _{Δn} < 300 ms, 5 I _{Δn} < 40 ms
Rated Insulation Voltage (Ui)	500 V	500 V
Rated Impulse Voltage (Uimp)	4 kV	4 kV
Dielectric Strength	2.5 kV	2.5 kV
Electrical/Mechanical Endurance (no. of operations) Minimum	10,000/20,000	10,000/20,000
Operating Temperature	-25 °C to + 55 °C	-25 °C to + 55 °C
Humidity	95 % RH	95 % RH
Terminal Capacity (max)	35 mm ²	50 mm ²
Tightening Torque	2 N-m	2.5 N-m
Vibration	3 g	3 g
Shock Resistance	40 mm free fall	40 mm free fall
Protection Class	IP20	IP20
Positive Contact Indication	Red-ON, Green-OFF	Red-ON, Green-OFF
Net Weight in kg	0.215 kg (for 2P) ; 0.335 kg (for 4P)	0.230 kg (for 2P) ; 0.404 kg (for 4P)
Dimensions (H x D x W)/Pole in mm	87.5 x 71.7 x 35.9 mm (for 2P) ; 87.5 x 71.7 x 72.0 mm (for 4P)	88.2 x 71.7 x 35.9 mm (for 2P) ; 88.2 x 71.7 x 72.0 mm (for 4P)
Mounting	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
Case & Cover	Molded, flame retardant thermoplastic material	Molded, flame retardant thermoplastic material
Busbar Connections	Pin/Fork type	Pin/Fork type
Auxiliary Contacts	Yes	No

34 HG Modular Devices

Standard

- ▶ IEC 60898
- ▶ IEC 60947-2
- ▶ IEC 61008
- ▶ IEC 61009
- ▶ IEC 60947-3

Approval

- ▶ ISO 18001, 14001, 9001
- ▶ CE
- ▶ DEKRA (KEMA)
- ▶ GOST-R
- ▶ TSE
- ▶ IRAM
- ▶ BV

HG-SERIES

تاییدیه ها

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