

Model Selection Table

(HGP 1,000Vac MCCB)

Common Ratings			
Rated Insulation Voltage, Ui	1,000V	Suitability for Isolation	Yes
Rated Impulse Withstand Voltage, Uimp	8kV	Utilization Category	A
Protection Function	Overload, Instantaneous, Short-Circuit Protection	Pollution Degree	3
		Reference Standard	IEC60947-2

Model Name				HGP100	HGP160
Frame		(AF)		100	160
Number of Poles		(P)		3, 4	3, 4
Rated Current, at 40°C		(A)		40, 50, 63, 80, 100	100, 125, 150, 160
Rated Ultimate Short-Circuit Breaking Capacity [Icu] (kA rms)	Type			K	T
	AC 1,000V			15	20
	AC 800V			25	40
Service Breaking Capacity [Ics = % Icu]				50%	50%
Trip Device	Thermal Magnetic	Long Time [LTD]		(0.7-0.8-0.9-1.0) × In	(0.7-0.8-0.9-1.0) × In
		Instantaneous [INST]		10 × In	(5-6-7-8-9-10) × In
Accessory	Internal	Auxiliary Switch	AUX	●	●
		Alarm Switch	ALT	●	●
		Shunt Trip	SHT	●	●
		Under-Voltage Trip	UVT	●	●
	External	Rotary Handle	Front Contact TFG	●	●
			Extension TFH	●	●
		Mechanical Open/Close Device	MOT	●	●
		Mechanical Interlock	MIF	●	●
		Handle Locking Device	PLD	●	●
		Cage Terminal Block	CTB	●	●
		Insulation Barrier	TQQ	●	●
		Terminal Bus Bar	TBB	●	●
Installation and Dimensions	Connection/Installation	Front Connection		Terminal Screw, Terminal Bus Bar	Terminal Screw, Terminal Bus Bar
	Dimension (mm)	a (3/4P)		105/140	105/140
		b		165	165
		c		86.5	86.5
	Certificates	IEC60947-2		●	●

HGP250	HGP400	HGP630
250	400	630
3, 4	3, 4	3, 4
125, 150, 160, 175, 200, 225, 250	300, 350, 400	500, 630
K	K	K
T	T	T
15	15	15
25	25	25
40	40	35
50%	50%	50%
$(0.7-0.8-0.9-1.0) \times I_n$	$(0.8-0.9-1.0) \times I_n$	$(0.8-0.9-1.0) \times I_n$
$(5-6-7-8-9-10) \times I_n$	$(5-6-7-8-9-10) \times I_n$	$(5-6-7-8-9-10) \times I_n$
●	●	●
●	●	●
●	●	●
●	●	●
●	●	●
●	●	●
●	●	●
●	●	●
●	●	●
●	●	●
●	●	●
●	●	●
●	●	●
●	●	●
Terminal Screw, Terminal Bus Bar	Terminal Screw, Terminal Bus Bar	Terminal Screw, Terminal Bus Bar
105/140	140/186.5	140/186.5
165	260	260
86.5	110	110
●	●	●

Model Selection Table

(HGP 1,500Vdc MCCB)

Common Ratings			
Rated Insulation Voltage, Ui	1,500V	Suitablilty for Isolation	Yes
Rated Impulse Withstand Voltage, Uimp	8kV	Utilization Category	A
Protection Function	Overload, Instantaneous, Short-Circuit Protection	Pollution Degree	3
		Reference Standard	IEC60947-2 Annex.P

Model Name				HGP100		HGP160	
Frame			(AF)	100		160	
Number of Poles			(P)	4		4	
Rated Current, at 40°C			(A)	100		100, 160	
Rated Ultimate Short-Circuit Breaking Capacity [Icu] (kA rms)		Type		S	H	S	H
		DC 1,500V for 4P (τ=2ms)		20	50	20	50
Service Breaking Capacity [Ics = % Icu]				100%		100%	
Trip Device	Thermal Magnetic	Long Time [LT]		(0.7-0.8-0.9-1.0) × In		(0.7-0.8-0.9-1.0) × In	
		Instantaneous [INST]		10 × In		10 × In	
Accessory	Internal	Auxiliary Switch		AUX	●	●	
		Alarm Switch		ALT	●	●	
		Shunt Trip		SHT	●	●	
		Under-Voltage Trip		UVT	●	●	
	External	Rotary Handle	Front Contact	TFG	●	●	
			Extension	TFH	●	●	
		Mechanical Open/Close Device		MOT	●	●	
		Mechanical Interlock		MIF	●	●	
		Handle Locking Device		PLD	●	●	
		Cage Terminal Block		CTB	●	●	
		Insulation Barrier		TQQ	●	●	
		Terminal Bus Bar		TBB	●	●	
		Series Bus Bar		SBB	●	●	
		Installation and Dimensions	Connection/Installation	Front Connection		Terminal Screw, Terminal Bus Bar	
Dimension (mm)	a		140		140		
	b		165		165		
	c		86.5		86.5		
Certificates			IEC60947-2 Annex.P		●		●

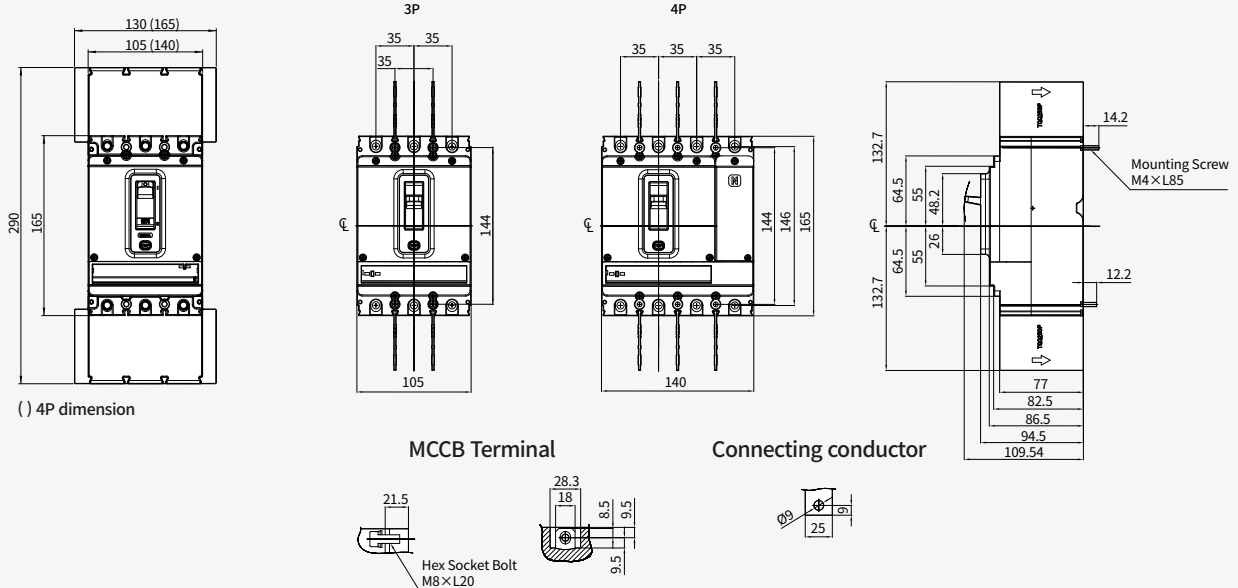
HGP250	HGP400	HGP630
250	400	630
4	4	4
160, 200, 250	300, 350, 400	500, 630
S	S	S
20	20	20
H	H	H
50	50	50
100%	100%	100%
$(0.7-0.8-0.9-1.0) \times I_n$	$(0.8-0.9-1.0) \times I_n$	$(0.8-0.9-1.0) \times I_n$
$10 \times I_n$	$10 \times I_n$	$10 \times I_n$
●	●	●
●	●	●
●	●	●
●	●	●
●	●	●
●	●	●
●	●	●
●	●	●
●	●	●
●	●	●
●	●	●
●	●	●
●	●	●
●	●	●
●	●	●
●	●	●
Terminal Screw, Terminal Bus Bar	Terminal Screw, Terminal Bus Bar	Terminal Screw, Terminal Bus Bar
140	186.5	186.5
165	260	260
86.5	110	110
●	●	●

Dimensions¹⁾

HGP100, 160, 250

1,000Vac MCCB Dimensions assembled insulating parts

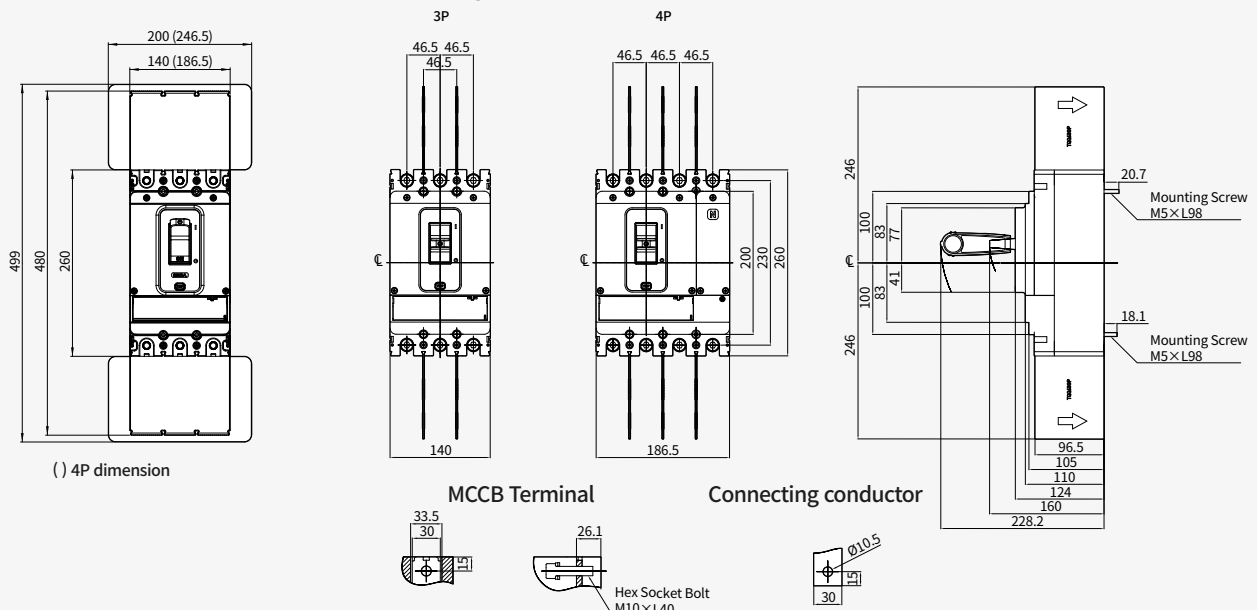
Unit : mm



HGP400, 630

1,000Vac MCCB Dimensions assembled insulating parts

Unit : mm



※ 1) 1,000Vac for 3P, 4P / 1,500Vdc only for 4P

Order Information

Order Code

	① HGP	② 250	③ H	④ -G	⑤ P4	⑥ T4	⑦ S	⑧ 00	⑨ 00	⑩ Z	⑪ 00250	⑫ N
① Model Name												
② Frame Size												
③ Short-Circuit Breaking Category Code												
④ Classification 250 AF												
⑤ No. of Poles & Voltage												
⑥ Product Category												
⑦ Connection Method												
⑧ Signal Device (AUX/ALT)												
⑨ Trip Device (SHT/UVT)												
⑩ Frequency												
⑪ Rated Current												
⑫ Trip Device Characteristics												

① Model Name		④ Classification-250 AF		⑦ Connection Method		⑩ Frequency	
HGP	Molded Case Circuit Breaker	-G	For HGP100/160/250	S	Front Connection	C	AC (50/60Hz)
						Z	For DC
② Frame Size		⑤ No. of Poles & Voltage		⑧ Signal Device (AUX/ALT)		⑪ Rated Current	
100	100AF	P4	DC 1,500V 4Pole	00	Not Attached	00040	40A
160	160AF	3P	AC 1,000V 3Pole	10	AUX 1C	:	:
250	250AF	4P	AC 1,000V 4Pole	20	AUX 2C	:	:
400	400AF			01	ALT 1C	00630	630A
630	630AF			11	AUX 1C + ALT 1C		
				21	AUX 2C + ALT 1C		
				31 1)	AUX 3C + ALT 1C		
				32 1)	AUX 3C + ALT 2C		
③ Short-Circuit Breaking Category Code		⑥ Product Category		⑨ Trip Device (SHT/UVT)		⑫ Trip Device Characteristics	
1,500Vdc		Molded Case Circuit Breaker		00	Not Attached	Protection	
S	20kA	T4	For 40°C Ambient temp	S1	SHT AC 100 - 120V	-	Thermal fixed/Inst. fixed (MTM - FF)
H	50kA			S2	SHT AC 200 - 230V	F	Thermal adj. / Inst. fixed (MTM - JF)
1,000Vac				S3	SHT AC 380 - 415V	H	Thermal adj./ Inst. adj. (MTM - JJ)
K	15kA			S4	SHT AC 440 - 480V	N	Thermal fixed/Inst. fixed (MTM - FF) + 4P protected N pole
T	20kA			S5	SHT DC 24V	FN	Thermal adj./Inst. fixed (MTM - JF) + 4P protected N pole
				S6	SHT DC 100 - 110V	HN	Thermal adj./Inst. adj. (MTM - JJ) + 4P protected N pole
				U1	UVT AC 100 - 120V		
				U2	UVT AC 200 - 230V		
				U3	UVT AC 380 - 415V		
				U4	UVT AC 440 - 480V		
				U5	UVT DC 24V		
				U6	UVT DC 100 - 110V		

※ 1) For HGP400/630

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