

HG-SERIES Vacuum Circuit Breaker



LV & MV Circuit Breakers

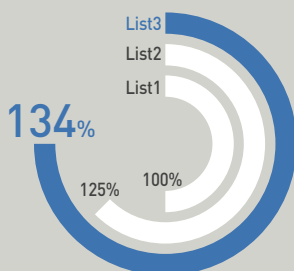
HYUNDAI *HG-SERIES*

New Vacuum Circuit Breaker with compact design and efficient structure

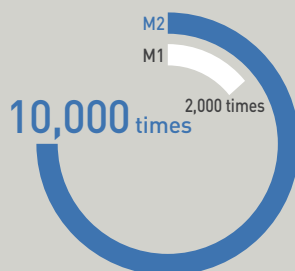


► Certification of the highest standards of the new IEC62271-100 (2012)

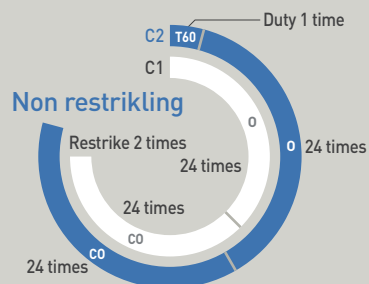
E2 (List3) | Arc energy



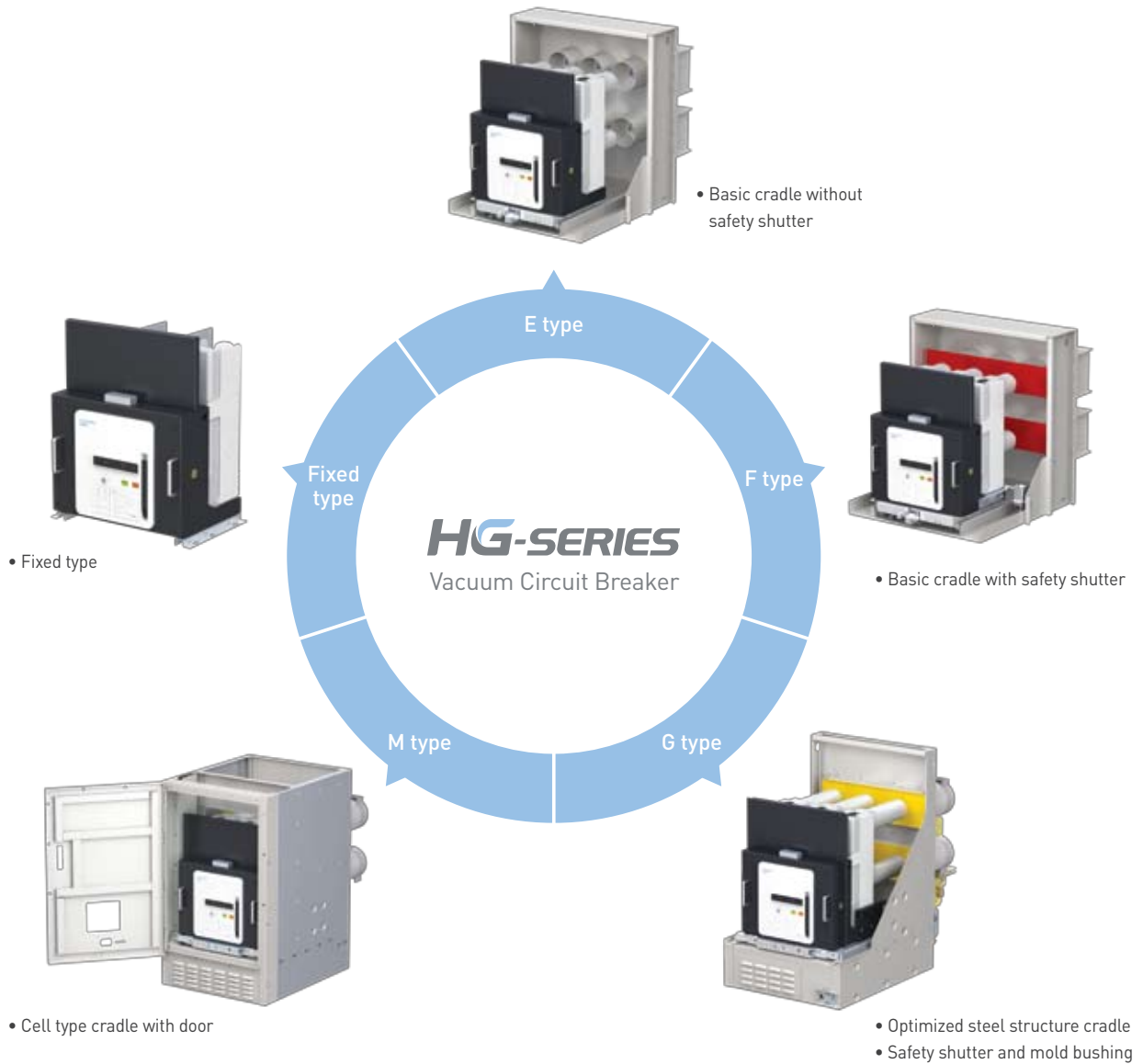
M2 | Mechanical endurance



C2 | T60: Duty 1 time, O: 24 times
CO: Non restriking during 24 times



Model Type



7.2kV

Model name		HGV114 □ ¹⁾				HGV115 □				HGV116 □					
Rated voltage		7.2kV				7.2kV				7.2kV					
Rated short-circuit breaking current		25kA				31.5kA				40kA					
Breaking capacity		310MVA				390MVA				500MVA					
Rated current		630A	1,250A	2,000A	1,250A	2,000A	2,500A	3,150A	4,000A	1,250A	2,000A	2,500A	3,150A	4,000A	
Pole center distance (mm) left-right x top and bottom	150 x 205	● ²⁾	●												
	150 x 210	■	■												
	210 x 310	△	△	△	△	△				△	△				
	275 x 310						◆	◆	◆			◆	◆	◆	
Mounting arrangement	Fixed type	XA	●	●	△	△	△	◆	◆	◆	△	△	◆	◆	
	Draw out type	ES	■	■											
		FS	■	■											
		GS, GE	● △	● △	△	△	△	◆	◆	◆	△	△	◆	◆	◆
		MS, ME	●	●	△	△	△	◆	◆	◆	△	△	◆	◆	◆

※ 1) □ : Rated current (1: 630A / 2: 1,250A / 4: 2,000A / 6: 2,500A / 7: 3,150A / 8: 4,000A)

2) For example: you can choose ES or FS in case of the HGV1141, when pole center distance left-right x top and bottom is 150 x 210mm.

(● : 150 x 205, ■ : 150 x 210, △ : 210 x 310, ◆ : 275 x 310)

12kV

Model name		HGV214 □ ¹⁾			HGV215 □				HGV216 □						
Rated voltage		12kV			12kV				12kV						
Rated short-circuit breaking current		25kA			31.5kA				40kA						
Breaking capacity		310MVA			390MVA				500MVA						
Rated current		630A	1,250A	2,000A	1,250A	2,000A	2,500A	3,150A	4,000A	1,250A	2,000A	2,500A	3,150A	4,000A	
Pole center distance (mm) left-right x top and bottom		150 x 205	●	●											
		150 x 210	■	■											
		210 x 310	△	△	△	△	△				△	△			
		275 x 310						◇	◇	◇			◇	◇	◇
Mounting arrangement	Fixed type	XA	●	●	△	△	△	◇	◇	◇	△	△	◇	◇	◇
	Draw out type	ES	■	■											
		FS	■	■											
		GS, GE	● △	● △	△	△	△	◇	◇	◇	△	△	◇	◇	◇
		MS, ME	●	●	△	△	△	◇	◇	◇	△	△	◇	◇	◇

※ 1) □ : Rated current [1: 630A / 2: 1,250A / 4: 2,000A / 6: 2,500A / 7: 3,150A / 8: 4,000A]

17.5kV

Model name		HGV314 □ ¹⁾			HGV315 □				HGV316 □						
Rated voltage		17.5kV			17.5kV				17.5kV						
Rated short-circuit breaking current		25kA			31.5kA				40kA						
Breaking capacity		750MVA			950MVA				1,200MVA						
Rated current		630A	1,250A	2,000A	1,250A	2,000A	2,500A	3,150A	4,000A	1,250A	2,000A	2,500A	3,150A	4,000A	
Pole center distance (mm) left-right x top and bottom		150 x 205	●	●											
		150 x 210	■	■											
		210 x 310	△	△	△	△	△				△	△			
		275 x 310						◇	◇	◇			◇	◇	◇
Mounting arrangement	Fixed type	XA	●	●	△	△	△	◇	◇	◇	△	△	◇	◇	◇
	Draw out type	ES	■	■											
		FS	■	■											
		GS, GE	● △	● △	△	△	△	◇	◇	◇	△	△	◇	◇	◇
		MS, ME	●	●	△	△	△	◇	◇	◇	△	△	◇	◇	◇

※ 1) □ : Rated current [1: 630A / 2: 1,250A / 4: 2,000A / 6: 2,500A / 7: 3,150A / 8: 4,000A]

24/25.8kV

Model name		HGV611 □ ¹⁾			HGV614 □		
Rated voltage		24kV, 25.8kV			24kV, 25.8kV		
Rated short-circuit breaking current		12.5kA			25kA		
Breaking capacity		520MVA			1,000MVA		
Rated current		630A	1,250A	2,000A	630A	1,250A	2,000A
Pole center distance (mm) left-right x top and bottom		150 x 205					
		150 x 210					
		210 x 310	△	△	△	△	△
		275 x 310					
Mounting arrangement	Fixed type	XA	△	△	△	△	△
	Draw out type	ES	△	△	△	△	△
		FS	△	△	△	△	△
		GS, GE	△	△	△	△	△
		MS, ME	△	△	△	△	△

※ 1) □ : Rated current [1: 630A / 2: 1,250A / 4: 2,000A / 6: 2,500A / 7: 3,150A / 8: 4,000A]



▶ **Short time withstand current is 4 seconds; above performance of the highest specifications prescribed by IEC standard**

▶ **Maximize heat radiation effect in natural cooling system**

HG-Series VCB has natural cooling system to maximize the air flow path in insulating frame. Heat generated from contact is induced in the rear of the insulating frame, and it is cooled naturally.

▶ **Convenient structure to use**

Enhanced maintenance convenience and installation of optional functions.





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