



The Power of Technology

Current Limiting Moulded Case Circuit Breaker



- Available in 6 frame sizes rated current from 10A - 800A
- Wide range of breaking capacity 5, 15, 18, 35, 50 & 65kA
- Available in both fixed & adjustable magnetic settings for HPL-600 & HPL-800
- Available with wide range of accessories
- True RMS sensing-accurate and close protection.
- High repeat accuracy-reliable protection.
- Built in operation-check function with Field Testing Provision.

Superior Series Current Limiting - MCCB



HPL Electric's Superior Series Current Limiting MCCB was developed with the latest technology for heavy duty usage: a magnetic trip unit for reliable quality tripping when short circuit occurs, repulse force for moving and fix contact construction, zero arc distance for the arc chute moulded in with thread nut for the case and cover and a long lasting BMC material for mounting, super mechanical and electrical strength.

Application

The current limiting MCCB Superior series is suitable for circuit protection in individual enclosures, switchboards, lighting and power panels as well as motorcontrol centers. The MCCB is designed to protect systems against overload and short circuits up to 65kA with the full range of accessories.

Mechanism

The MCCB Superior series is designed to be trip-free. This applies when the breaker contacts open under overload and short circuit conditions and even if the breaker handle is held at the ON position. To eliminate single phasing, should an overload or short circuit occur on any one phase, a common trip mechanism will disconnect all phase contacts of a multipole breaker.

Material

The Superior series circuit breakers' housing is made of BMC material, which is unbreakable and has a very high dielectric strength, to ensure the highest level of insulation. The same material is also used to segregate the live parts in between the phases.

Accessories

To enhance the Superior series MCCB, internal and external modules can be fitted onto the breaker. They are as follows:

- Shunt trip coil
- Undervoltage release
- Auxiliary switch
- Alarm switch
- Motorized switch
- Rotary handle
- Plug-in kit (draw-out unit)
- Auxiliary & alarm switch



MCCB - Electrical & Mechanical Features



Model Code		HLG-63		HLG-100				HLG-250					
		C	S	C	N	S	H	C	N	S	H		
Electrical Characteristics	AF	Frame Size		63	100				225				
	Ui	Rated Insulation Voltage (V), 50 Hz		690	690				690				
	Ue	Rated Voltage (V), 50 Hz		415	415				415				
	P	Poles		3	2/3	2/3/4	3/4	3/4	3/4				
	n	Operational Performance Capability	with current	1000	1500				1000				
			w/o current	8500	8500				7000				
	A	Rated Current at 40° C		10, 15, 20, 30, 40, 50, 63		15, 20, 30, 40, 50, 60, 75, 100				125, 160, 180, 200, 225, 250			
	Icu	Rated Ultimate Short Circuit Breaking Capacity (kA)	415V	5	15	18	35	50	65	18	35	50	65
			240V	10	30	35	70	100	130	35	70	100	130
	Ics	Rated Service Short Circuit Breaking Capacity (kA)	415V	3	8	9	18	25	33	9	18	25	33
240V			6	15	18	35	50	65	18	35	50	65	
Overcurrent Releases	Thermal & Fixed Magnetic Trip Unit		available		available				available				
	Adjustable Thermal & Magnetic Trip Unit		-		-				-				
	Test Trip Button		available		available				available				
Mechanical Characteristics	kg	Weight (3 pole)		0.9	1.6				3.5				
	mm		a	75	90				105				
			b	136	155				166				
			c	68	73	68	85		87	104			

MCCB - Electrical & Mechanical Features



HLG-400		HLG-600		HLG-800		HLG-1000
S	H	S	H	S	H	S
400		600		800		1000
690		690		690		690
415		415		415		415
3/4		3/4		3/4		3/4
1000		1000		500		500
4000		4000		2500		2500
250, 315, 350, 400		500, 600		700, 800		1000, 1250
50	65	50	65	50	65	85
100	130	100	130	100	130	125
25	33	25	33	25	33	43
50	65	50	65	50	65	63
available		available		available		available
-		available		available		-
available		available		available		available
6		9.5		10.5		25
140		210		210		210
256		275		275		406
103		103		103		140

Quick & Wide Selection Guide

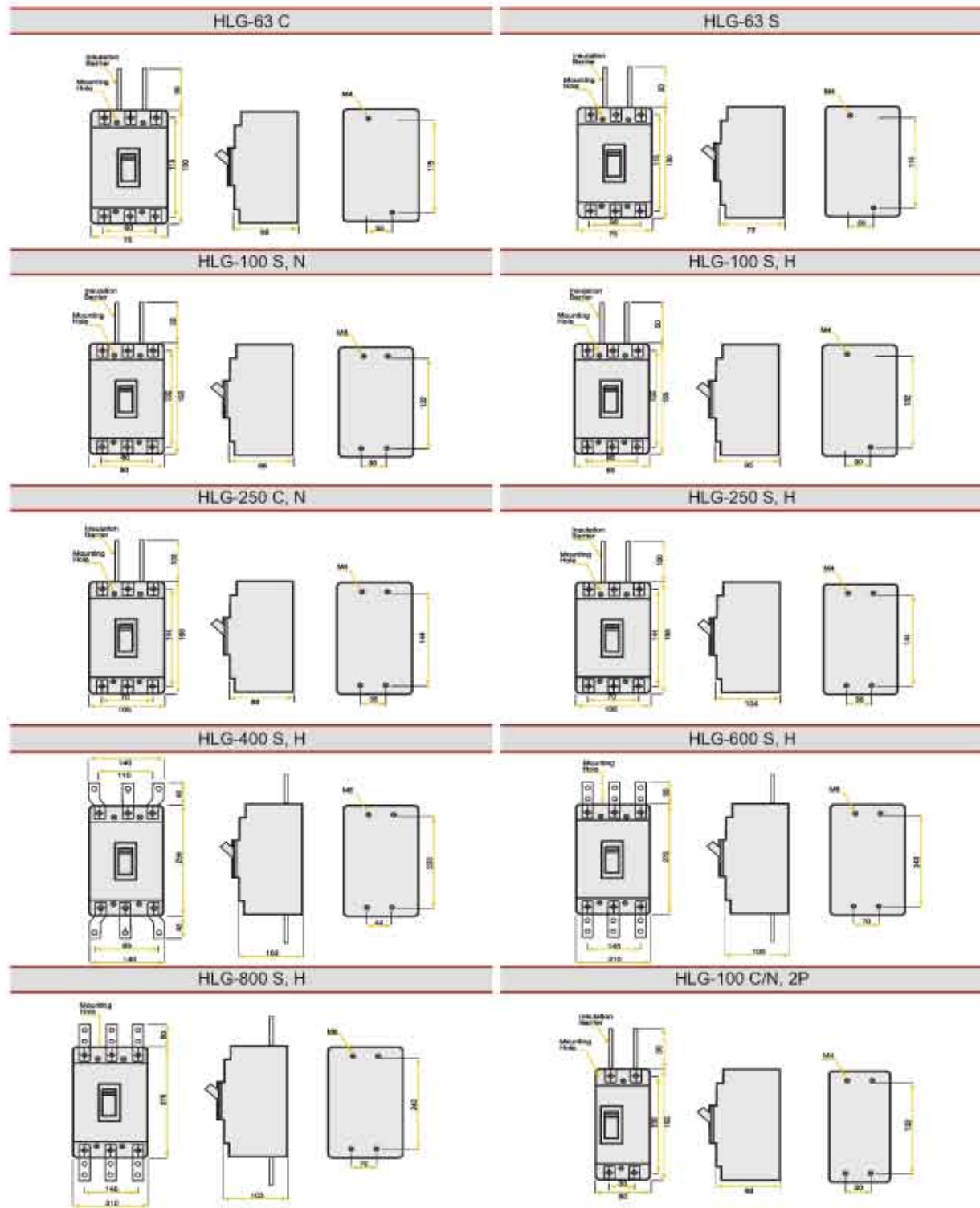


The Superior series current limiting MCCB is available in 8 frame sizes, with ratings from 10A to 800A. Each frame size offers several interrupting capacities (Icu), up to 65kA, at AC 415V. Available in C, N, S and H configurations for various breaking capacity, the space-saving current limiting MCCB Superior series provides greater design flexibility than before. The C and N configurations are for general use in a general circuit. A bestseller worldwide, the C and N ranges from 60A to 800A in frame sizes. Also for general usage, the S and H configurations have a higher interrupting capacity, from 15A to 800A in frame sizes, is actually an upgrade from the C and N range.

415V AC		Interrupting Capacity (kA)				
Symmetrical	5	15	18	35	50	65
10						
15						
20						
30	HLG-63C	HLG-63S				
40			HLG-100C	HLG-100N	HLG-100S	HLG-100H
50						
60						
75						
100						
125						
150						
160			HLG-250C	HLG-250N	HLG-250S	HLG-250H
180						
200						
225						
250						
300					HLG-400S	HLG-400H
315						
400						
500					HLG-600S	HLG-600H
600						
700					HLG-800S	HLG-800H
800						

Breaker Rated Current (A)

Outline Dimensions of the MCCB



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| • Bahadurgarh | • Coimbatore | • Hubli | • Kolhapur | • Malda | • Patna | | | | |

Due to continuous development, specifications and features are subject to change without prior notice.