


BLH: SYSTEM FOR PROTECTIVE RELAY TEST (HYBRID INTEGRATED TEST BLOCK)

The handling and use of these products must be carried out by personnel trained in Electrical Power System Protection.

TERMINAL BLOCKS & TEST SWITCHES
by Megger®

I. GENERAL		
Product	BLH: Hybrid Test Block	
Description	The BLH has 18 main contacts, for Voltage, Current and Control plus 2 auxiliary contacts, one for external signaling and another for front light indication when in test mode.	
Configuration	The CONFIGURATION is composed of: TRIPS + VOLTAGES + CURRENT GROUPS + OPTIONS .	
Options	1.- CONFIGURATION Group: GROUP A. (Contains subgroups of 0 or 2 Current circuits). GROUP B. (Contains a subgroup of multiple Current Circuits). GROUP C. (Contains multiple Current Circuits subgroups). 2.- CONFIGURATIONS Variant. (Interchange of circuit position) Variant 9: Factory-configured (standard). Variant 8, 6: Other customizations Variant 7: Includes circuits for (+) and (-). 3.- Mounting (V = Vertical, H = Horizontal).	
Isolation accessory	The BLH does not require an isolation accessory; contact switching and isolation are achieved by rotating the operating lever.	
Operation	Sequential switching of the BLH contacts (Trips, Currents, Potentials, and Auxiliary) by turning the operating lever. BLH OPERATION SEQUENCE: POSITION 1 - BLH in Service (Lever in position 1) POSITION 2 - BLH Blocking Trips (Lever in position 2) POSITION 3 - BLH Isolating Instrument, fully blocked (Lever in position 3) In each position, the lever is mechanically locked and manually released by a locking device.	
	EVENT	DESCRIPTION
	POSITION 1	Service Position: The BSL 18H is with all contacts closed
	Release mechanism ¹	Release the mechanism to be able to move the operating lever from position 1 to position 2.
	Operation 1	Operation of auxiliary contacts.
	Operation 2	Interruption of trip circuits
	POSITION 2	Locked Trips: Only the Trip circuits are open
	Release mechanism ¹	Release the mechanism to be able to move the operating lever from position 2 to position 3.
	Operation 3	Short-circuiting the current.
	Operation 4	Interruption of current circuits
	Operation 5	Interruption of voltaje circuits.
	POSITION 3	Total Lock: All contacts are open. Only in this position can the connectors be connected to inject the test signals to the protection device.
	Release mechanism ¹	Release the mechanism to be able to move the operating lever from position 3 to position 2.
		Dº
		0º
		0º
		6º
		10º
		25º
		25º
		40º
		55º
		65º
		80º
		80º
¹ Press the lock button, lightly and manually pull the operation lever, release the lock button, continue pulling the operation lever until reaching the next position. When reaching the next position the mechanism will automatically lock again.		

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	 <div style="display: flex; justify-content: space-around; text-align: center;"> <div data-bbox="451 772 724 877"> <p>POSITION 1 <i>(Service)</i></p> </div> <div data-bbox="800 772 1073 877"> <p>POSITION 2 <i>(Locked Trips)</i></p> </div> <div data-bbox="1149 772 1422 877"> <p>POSITION 3 <i>(Total Lock)</i></p> </div> </div> <p style="text-align: center; background-color: yellow;">WARNING: MAKE CONNECTIONS ON THE FRONT SIDE OF THE HYBRID TEST BLOCK ONLY IF IT IS IN POSITION 3.</p>
Composition	Conductors made of tinned copper, encased in polycarbonate-based insulating plastic, and stainless-steel components.
Mounting	Mounting is available in horizontal or vertical orientation.
Presentation	Plastic housing and stainless-steel accessories.
Warranty	5 years
Additional Information	<ul style="list-style-type: none"> - Rear connection with ring-type terminal for 10, 12, and 14 AWG gauge wires. - Designed for use with Instrument Transformers. - Indoor use only; to be mounted inside protection cabinets.

II. TECHNICAL DATA

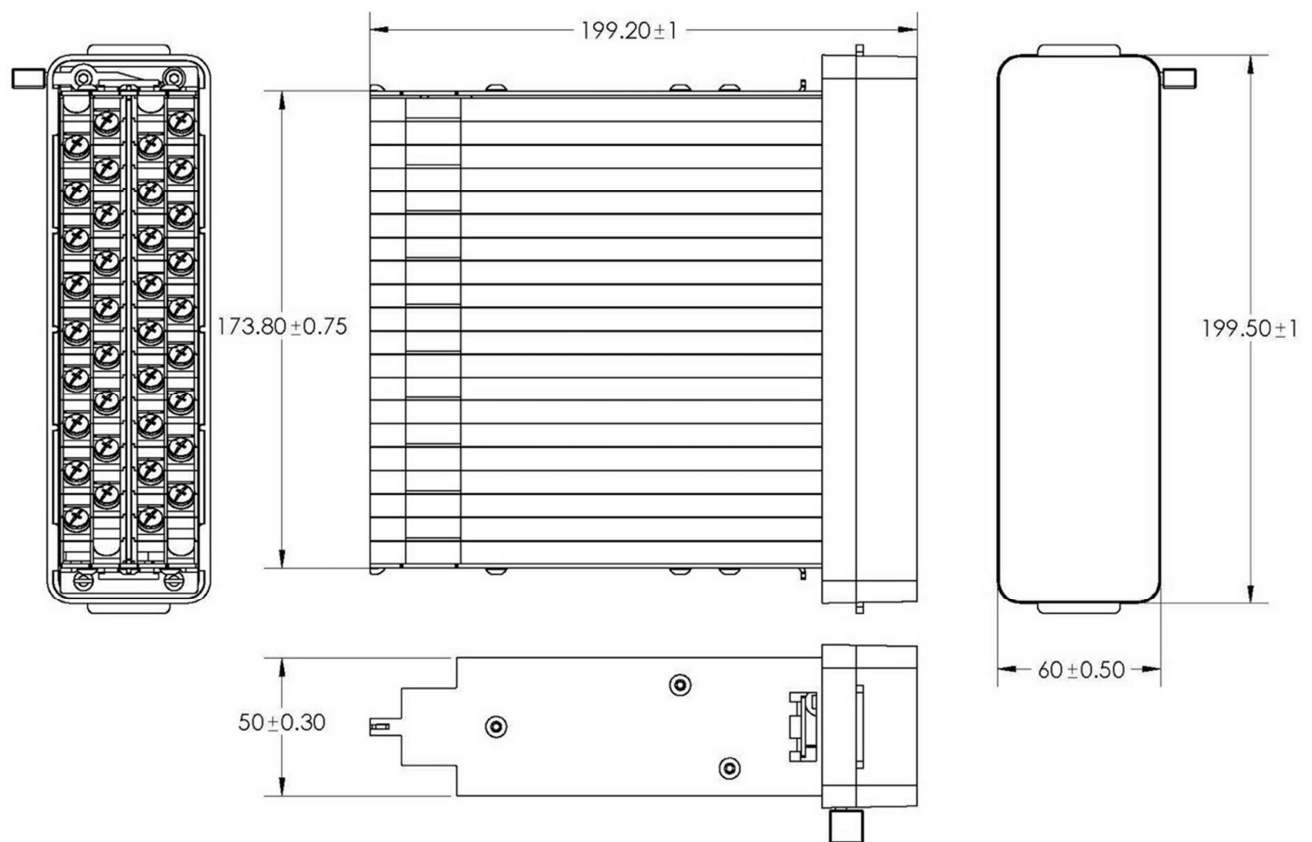
PARAMETER	VALUES
Short-time withstand current	400 A, 1s
Nominal continuous current	20 A
Maximum operating voltage	Approximately 600 V
Low frequency withstand voltage	2,500 V, 60 Hz, 1 min
Temperature Range	-25° a +50° C
Recommended torque	1.1 Nm (154 oz.in) +/- 0.1 Nm
Accepted terminal type	Eyelet or Spade
Accepted terminal sizes	10, 12, and 14 AWG
Auxiliary contacts	3 A, 250 Vac
Accepted Terminal Types	Insulated Banana plug
Dimensions	Width: 50 mm, Height: 178 mm, Depth: 200 mm
Weight	2.3 Kg
Warranty	5 years

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III.- RECOMMENDATIONS

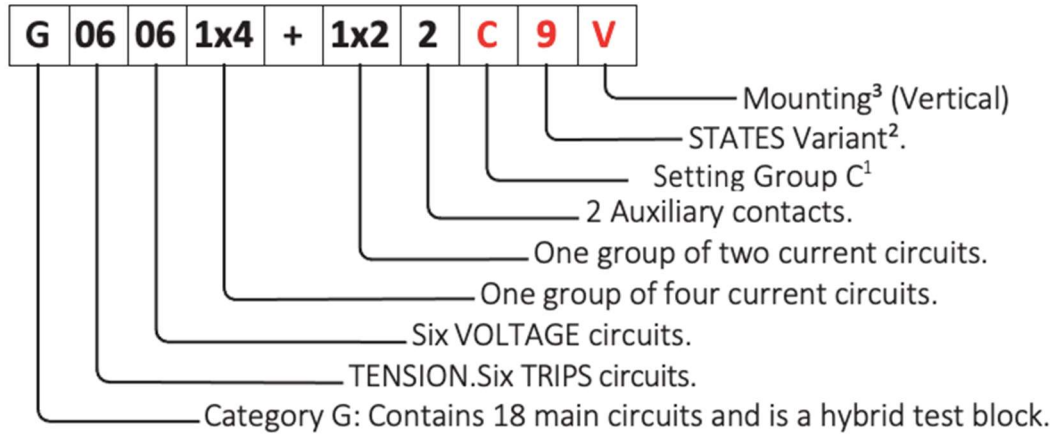
1. For use with instrument transformers.
2. For indoor use.
3. Consult the Warranty Policy.
4. Make connections with the recommended torque.
5. When in service, keep the BLH covered. Only clean the exterior; contact cleaning is not required.
6. Ensure the rotary lever is in position 3 and all contacts are open before connecting the test leads to the front.

IV. BLH DIMENSIONS



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V. BLH IDENTIFICATION



¹Settings Group: A, B, o C, Defined by the factory

GROUP A. (Contain sub-groups of 0 and 2 currents)

GROUP B. (Contain a sub-group of multiple currents)

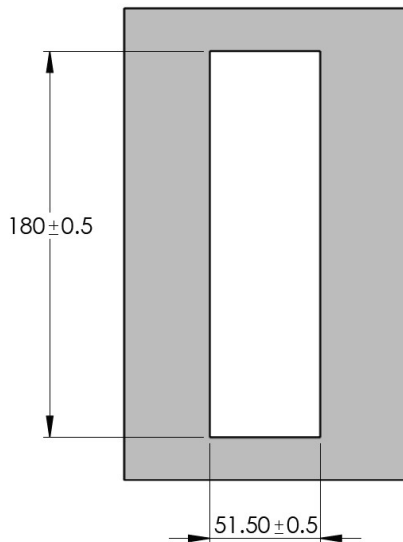
GROUP C. (Contain multiple sub-groups of currents)

²Variant 9: Defined by the factory as default for STATES brand.

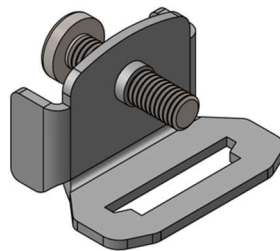
²Mounting: Vertical or Horizontal.

VI. BLH MOUNTING.

BLH is for recessed mounting, for which it is only necessary to open a window on the mounting plate with the dimensions indicated below, the BLS 18H is placed and it has an upper and lower flange to link with mounting locks that facilitate its fixation on the plate.



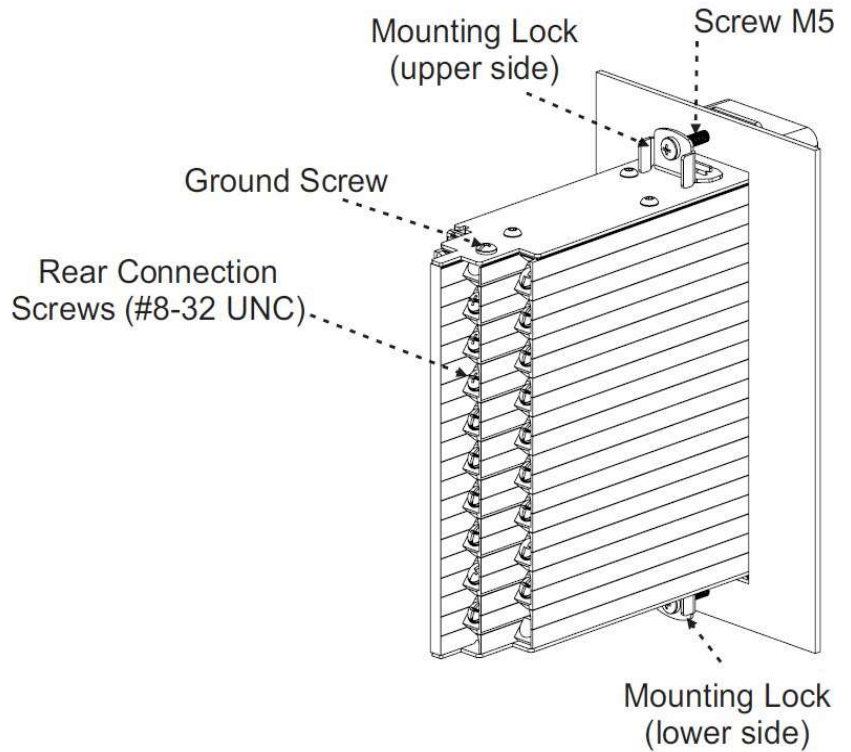
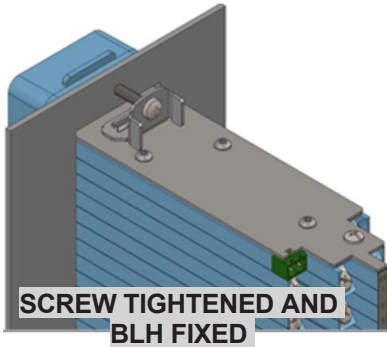
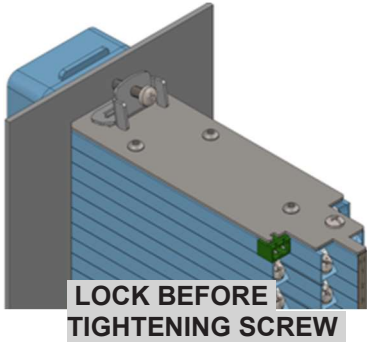
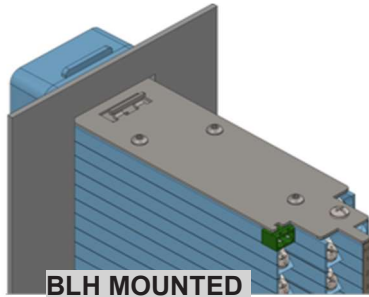
CUT OUT DIMENSIONS FOR MOUNTING (MM)



BLH MOUNTING LOCK

BLH MOUNTING SEQUENCE

1. Place the BLH in the Cut Out the rack.
2. Place the mounting lock on the lower side.
3. Place the mounting lock on the upper side.
4. Center the BLH with the Cut Out.
5. Tighten the screw at the lower side.
6. Tighten the screw at the upper side.



*Dimensions In mm