

TELARC

YOU CAN TRUST US



HSCB CATALOGUE



Work applications



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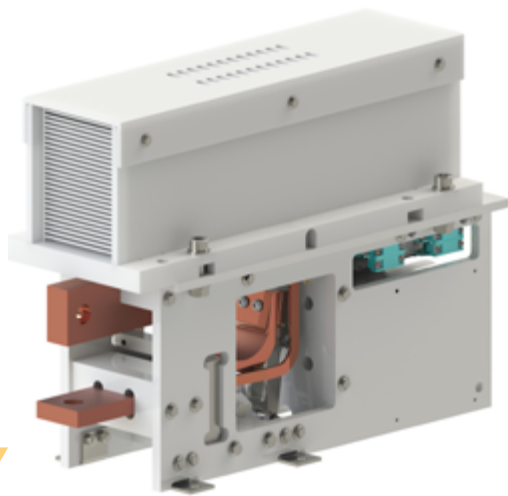
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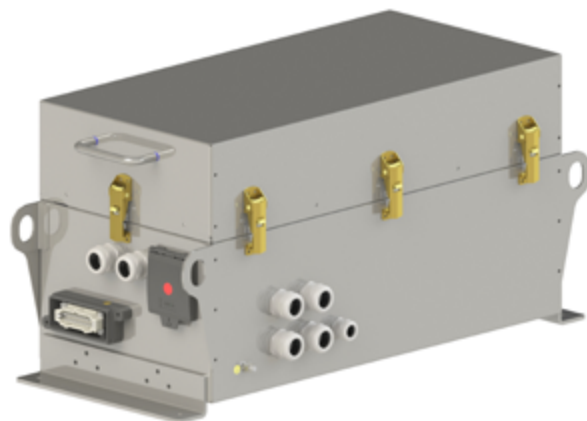
Telarc HSCB

Is a flexible and high performance solution for Rail and Industrial applications.

Box is customized according to specific requirements



HSCB



HSCB in Box

Designed to railway standards but suitable for multiple applications



Rolling stock

Our products for the railway and industrial sectors are designed to comply with strict international regulations but also taking care of our customer needs in terms of installation.



Substation equipment

We produce switches up to 4kV DC and AC current that guarantee high quality and safety standards.



Energy production

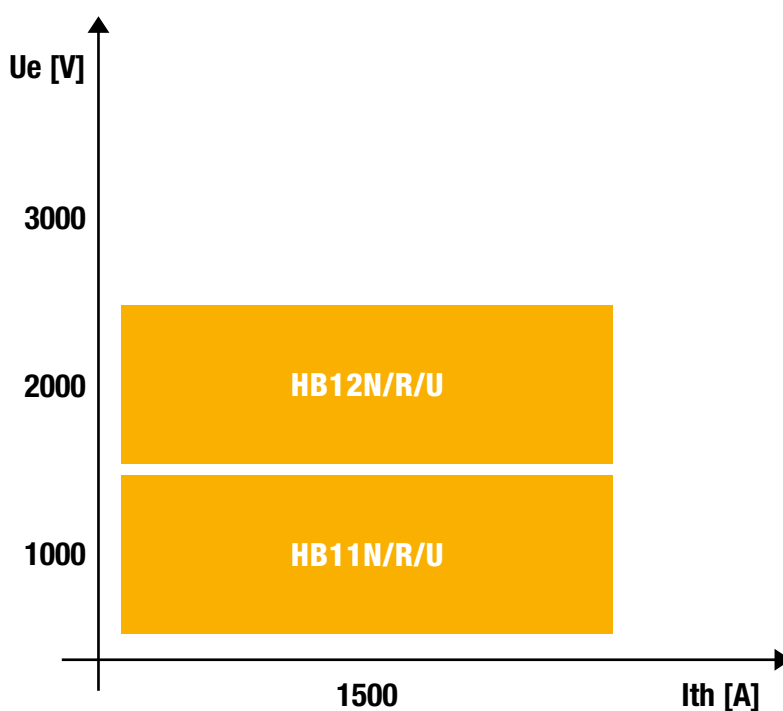
We design our products taking care of the environment around us and we use energy saving systems to allow our products to minimize power consumption during the life cycle.



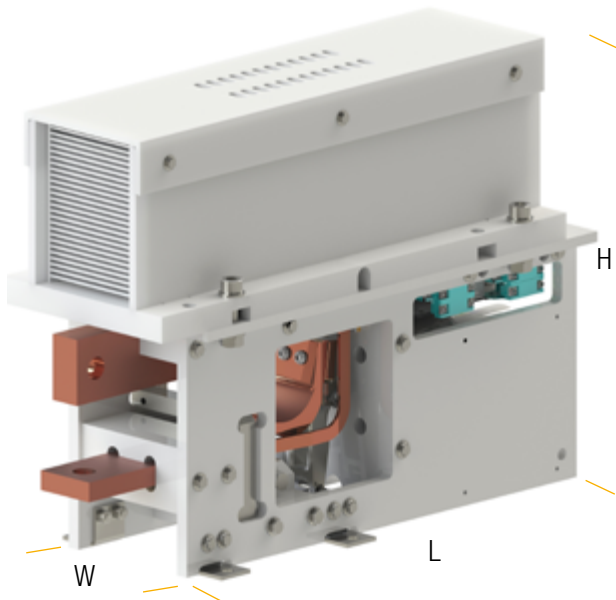
Industrial application

We cooperate with our Customers and we are part of their successes in various fields of application, from Railway systems, to transport people in a sustainable way, up to hydroelectric plants to produce clean energy.

Compact and light HSCB to fit applications at 900V or 1800V typical of Metro systems and Light Rail applications



HB High speed circuit breakers



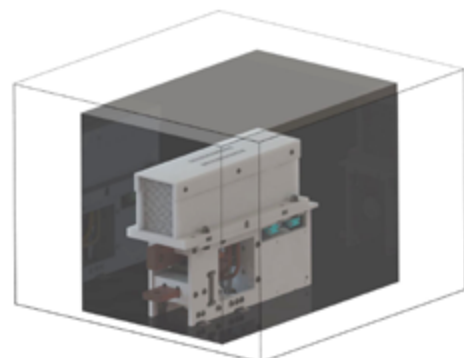
Type	L mm	H mm	W per pole mm
900 V	450	340	145
1800 V	450	445	145

Features

HB serie is a DC current limiting breaker with a High speed breaking capability. It is suitable to protect DC system in Metro and Light rail applications. Fully validated according to IEC60077 standard.

Smaller footprint

When installed on board rolling stock, the Telarc HSCB features shorter flashover distances to ground than other HSBCs. It takes upwards of 40% less footprint, resulting in easier integration and optimum adaptation to customers' space constraints.



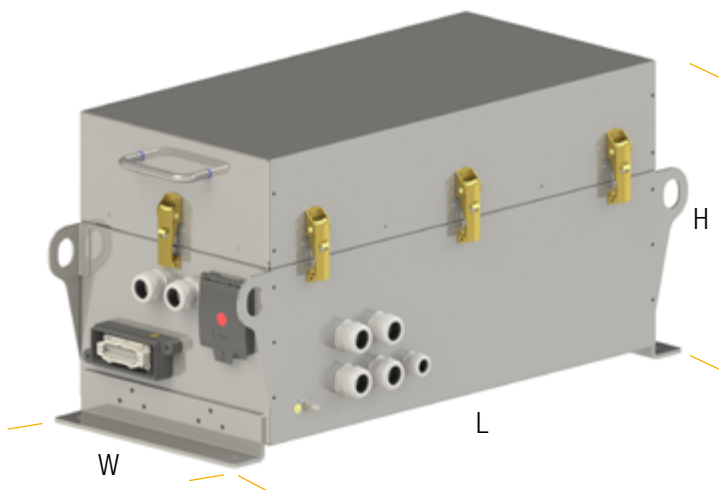
Other designs

Telarc Design

High Speed Circuit Breakers designed to offer the best solution for short circuit protection

Rated operational voltage (Ue)	900 V	1800 V
Rated insulation voltage	2300 V	2300 V
Rated impulse withstand voltage	18 kV	18 kV
Rated operational current (Tamb = + 40°C)	1500 A	1500 A
Conventional free air thermal current (Tamb = + 40°C)	1500 A	1500 A
Rated short-circuit making and breaking capacity	30 kA	30 kA
Rated time constant T1	30 kA / 0 ms	17 kA / 0 ms
Rated time constant T2	30 kA / 15 ms	30 kA / 15 ms
Rated time constant T3	30 kA / 50 ms	30 kA / 40 ms
Rated time constant T4	30 kA /150 ms	30 kA /100 ms
Operational performance capability	C3	C3
Direct over-current release	0.9 - 1.3 kA	0.9 - 1.3 kA
	1.3 - 1.8 kA	1.3 - 1.8 kA
	1.8 - 3.6 kA	1.8 - 3.6 kA
Peak arc voltage x Ue	2.5	2.5
Power frequency withstand voltage (50 Hz, 1min)		
Across main contacts (open)	6.6 kV	6.6 kV
Main circuit (closed) to earth and control circuit	6.6 kV	6.6 kV
Low voltages circuit to earth	1.5 kV	1.5 kV
Standard applied	iEC 60077-3 and iEC 61373	iEC 60077-3 and iEC 61373

HB Enclosure solution



Type	L mm	H mm	W per pole mm
900 V	630	410	360
1800 V	630	515	360

Please ask dedicated datasheet for exact dimensions

Features

Enclosure can be customized according to specific requests.

Any type of Low voltage connector is available. Cables interfaces can be moved in order to fit narrow roof or underframe installations.

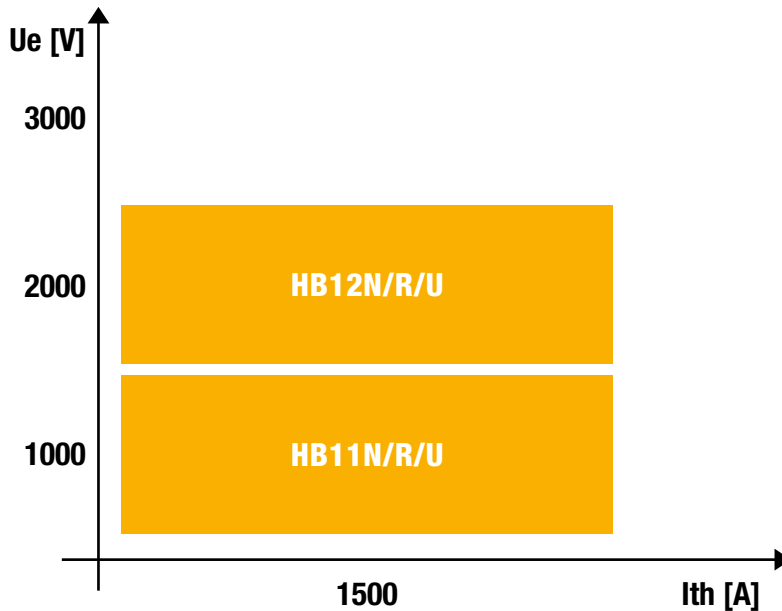
Stainless steel box does not require additional frames to be mounted on the vehicle.

Underframe box is equipped with lateral openings to ease the inspection process on the vehicle.



HB overview summary and part numbering

A dedicated electronic control is available in order to avoid external control circuits and to guarantee a real energy saving avoiding the economy resistor



6 Main Digits (Father Part Number)						9 Configuration Digits (Son Part Number)								
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
H	B	1	1	N	A	A	E	2	C	0	N	0	0	0

Nominal current	
1500 A	1

Rated Voltage	
900 V	1
1800 V	2

Installation	
No box	N
Box Roof Mounted	R
Box Underframe Mounted	U

Trip Range	
900 A - 1300 A	A
1300 A - 1800 A	B
1800 A - 2500 A	C
2500 A - 3600 A	D

Control voltage Vc (+25% / - 30%)				
A	24 V _{DC}	C	48 V _{DC}	E 110 V _{DC}
B	36 V _{DC}	D	72 V _{DC}	

Type of latch			
E	Electrical - Without Ecodrive	D	Electrical - With Ecodrive
M	Magnetical - Without Ecodrive		

Project Digits	
XX	special versions ID

Aux Contact Model			
0	-	U	S826
C	PBX	Y	Other

Indirect Release			
Y	YES	N	NO

LV Connector			
0	-	Y	Other
A	VEAM	S	SOURIAU
B	HARTING		

No. Of aux contacts (S=screw / F=faston)			
00	No aux contacts		
1C	1 NO + 1 NC S	5C	5 NO + 5 NC S
1F	1 NO + 1 NC F	5F	5 NO + 5 NC F
2C	2 NO + 1 NC S	6C	6 NO + 6 NC S
2F	2 NO + 1 NC F	6F	6 NO + 6 NC F
3C	3 NO + 3 NC S	7C	7 NO + 7 NC S
3F	3 NO + 3 NC F	7F	7 NO + 7 NC F
4C	4 NO + 4 NC S	8C	8 NO + 8 NC S
4F	4 NO + 4 NC F	8F	8 NO + 8 NC F

Magnetic version available 2023

Telarc certificated Company

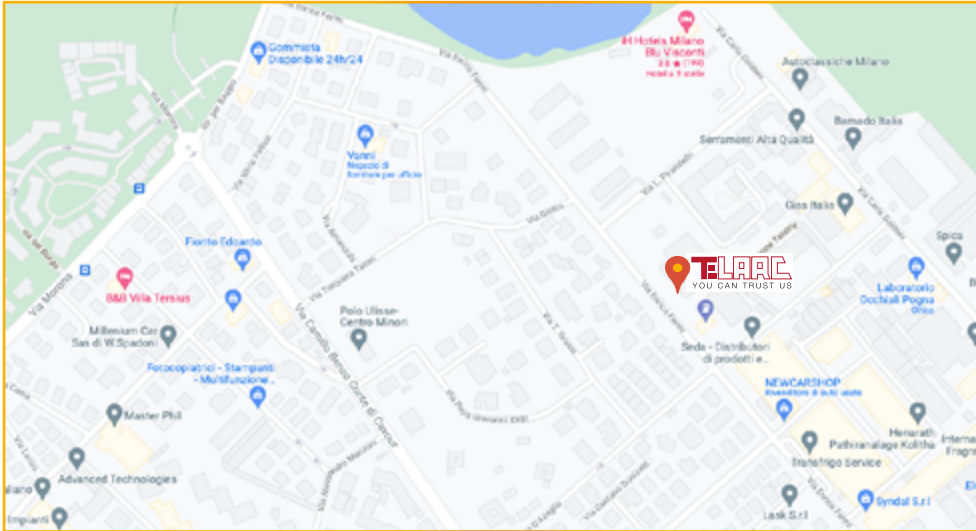


ISO 9001:2015

Our Quality Management System is certified to the high ISO (International Organization for Standardization) standards and our concept of quality extends way beyond this. We focus on total quality, which includes advanced processes and the culture of our organization.



Telarc is present with subsidiaries in other countries



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