PRODUCT PRESENTATION

SHIELDPACK™ HV RCS890 SI 2-WAY

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SHIELDPACK™ HV RCS890 SI

Power Conversion

2 Way

Customer benefits

- Specifically developed for compact environment
- Slider solution offers the maximum pressure surface in limited space conditions
- Header connection on flat surface

Key features

- Sealing class: IP67 / IP69k
- Strain Relief Device ensures product performance in constrained environment
- Two-step un-mating to prevent from arcing

Applications

- High voltage power conversion: Converter, E-Motor, HV-Battery

Manufacturing Site

- Epernon, France

Technical Characteristics	
Connector Type	Wire-to-Device
Cable Shielding	Individual
Cable Exit Orientation	90°
Cable Range	35 mm² to 70 mm²
HVIL	Shunt on harness connector
Assembly Assurance	CPA
Number of Indexes	2
Electrical protection	IP2XB

Performance	
210A@85°C	
1000V DC	
Temperature	T3
Vibration	V1*
Sealing	S3

* For V2 please contact Aptiv

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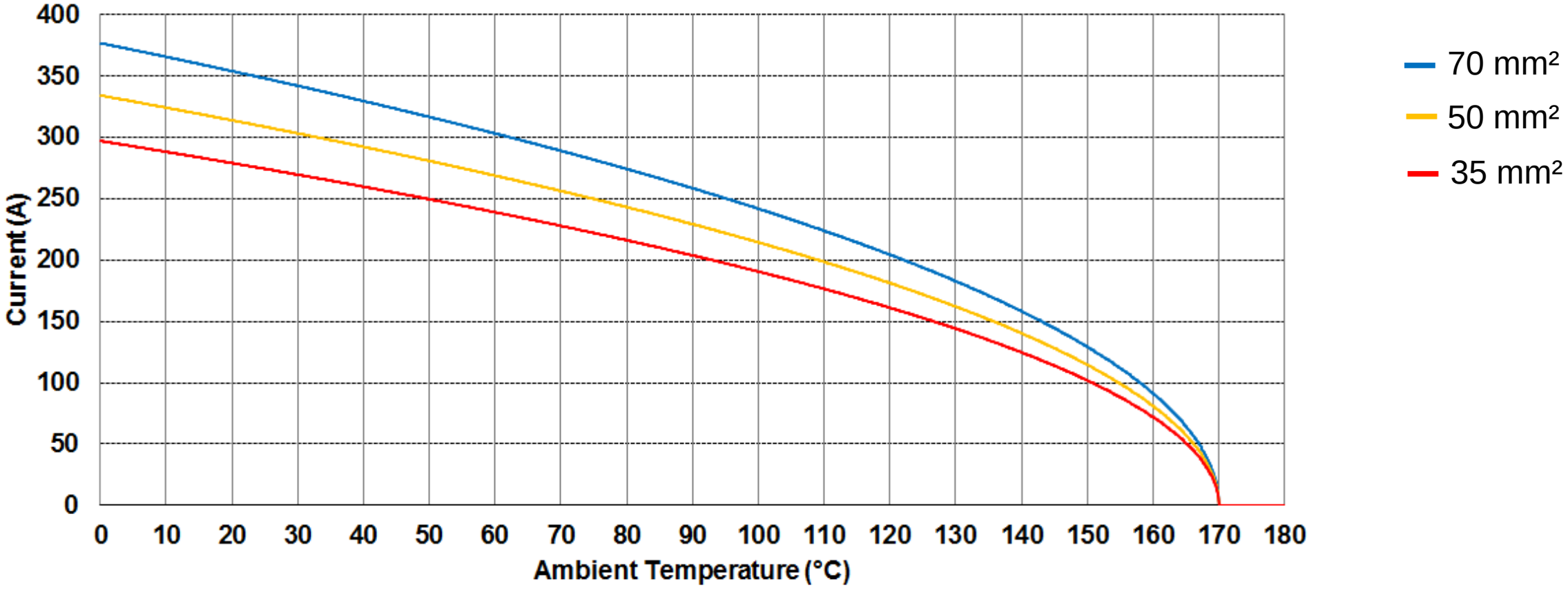
Derating RCS 890

Tests performed with connector housing



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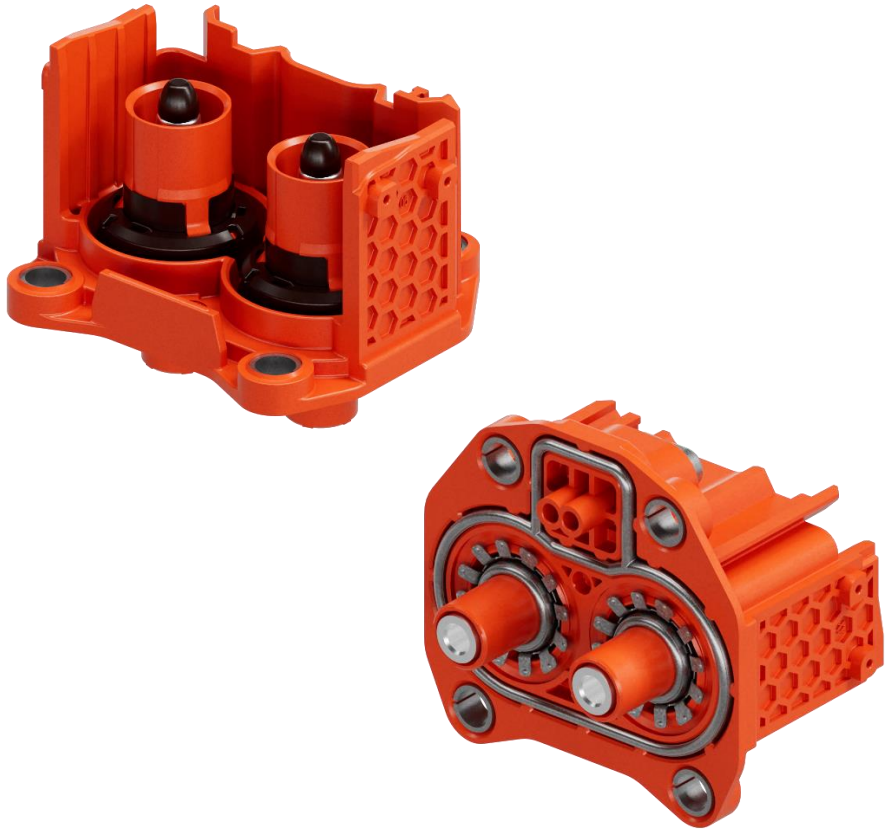
Connector Views

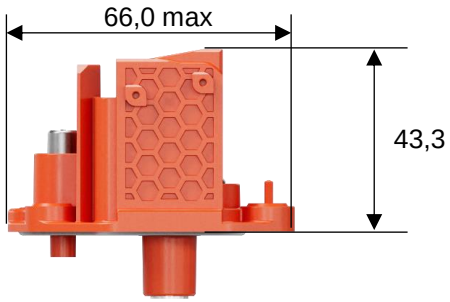
Female Connector



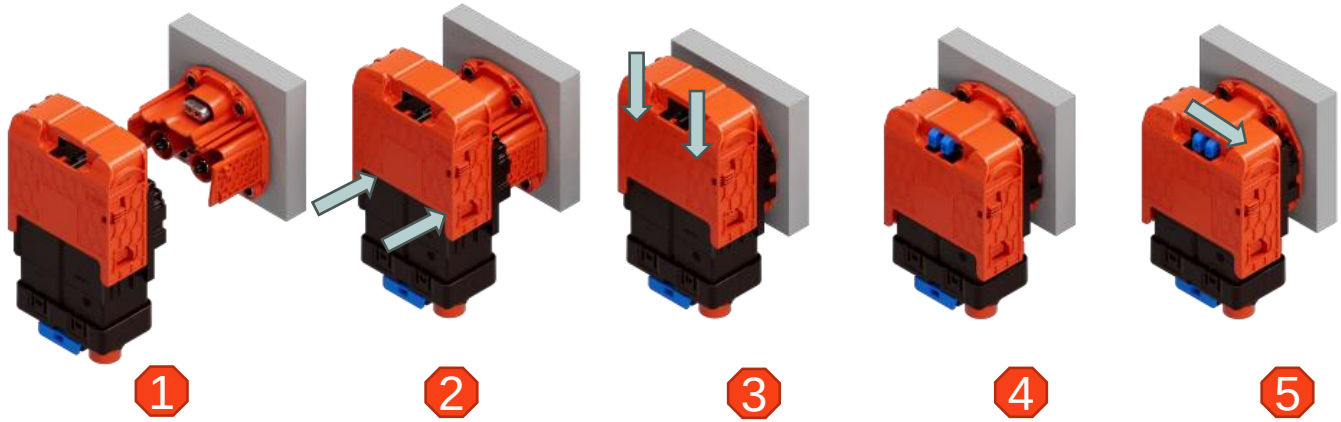
Male Device Header

Dimensions & Layout

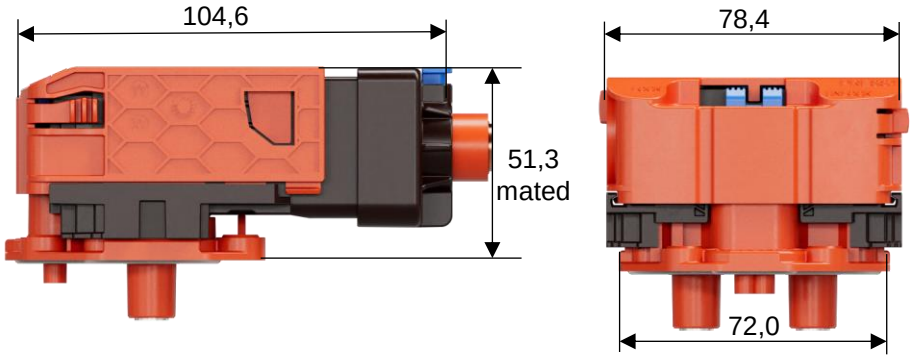
General Dimensions



Mating sequence

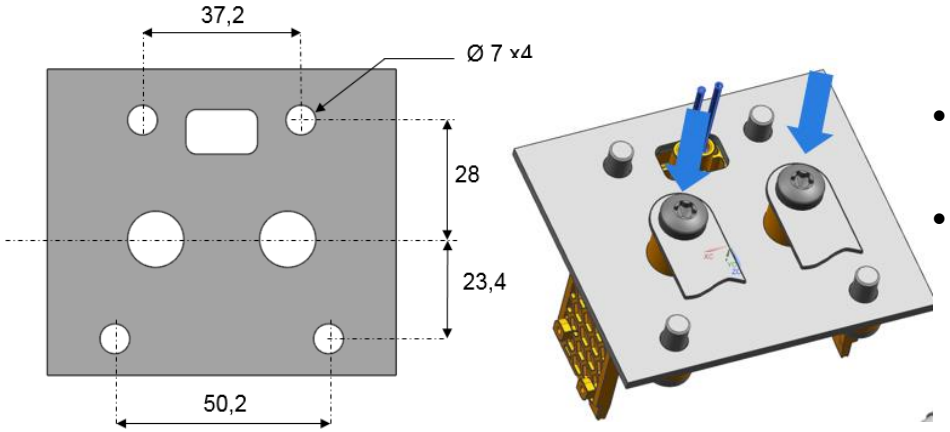


Header



Female Connector

Device Interface (flat surface)



- A simple interface on the device
- Sealed header in both Direct connection to busbar

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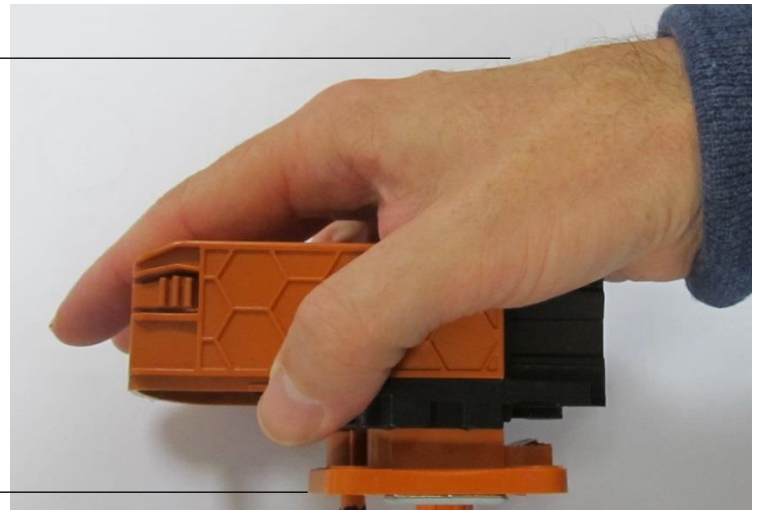
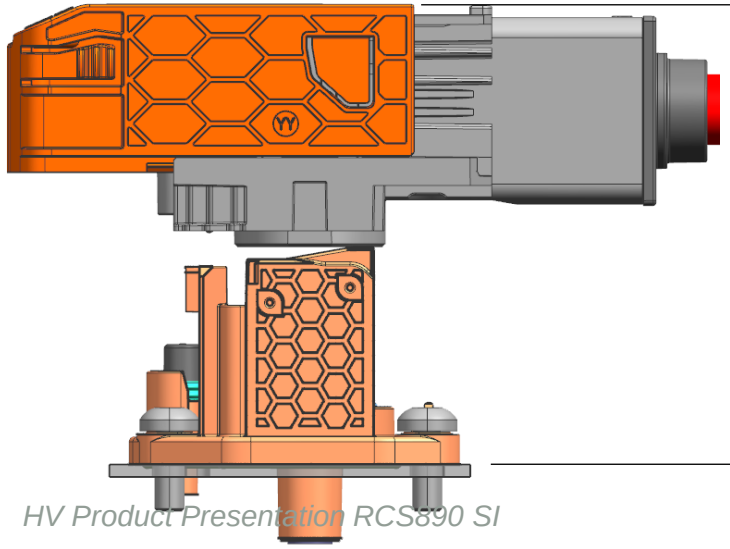
Very compact design

RCS890 SW 2-way

Around
100 mm

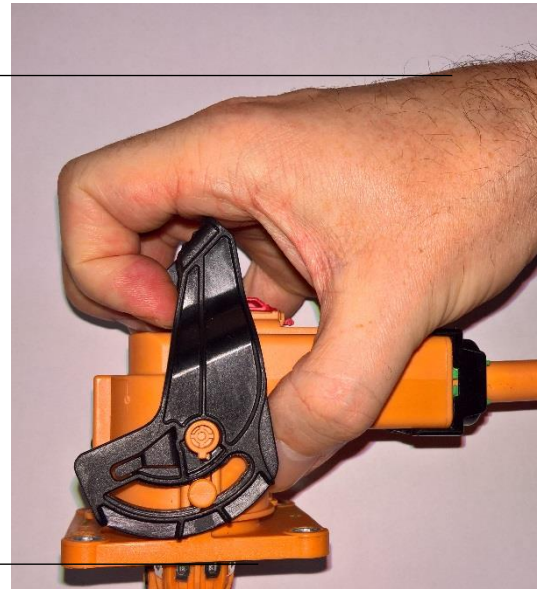


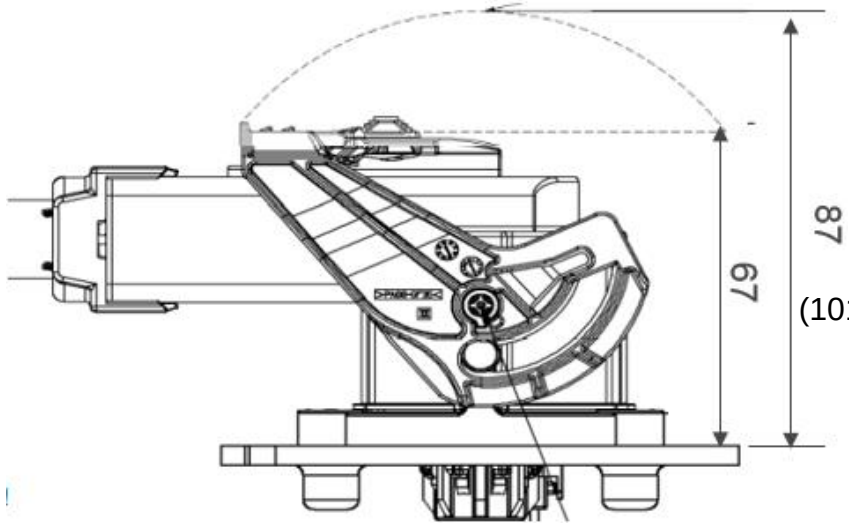


91,8 approach
(51,3 mated)

Traditional lever system

Around
135 mm





87

67

(101 unmated)

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Product summary & associated part-numbers

SHIELDPACK™ HV RCS890 SI

BENEFITS

- Specifically designed for compact environments
- High-water protections resulting from sealed unmated header
- Easy assembly thanks to slider feature on female connector

FEATURES

- Header has flat and simple device interface
- Connectors dismounting in 2 steps for time delay between interlock opening and power disconnection
- Slider solution offers the maximum pressure surface in limited space conditions

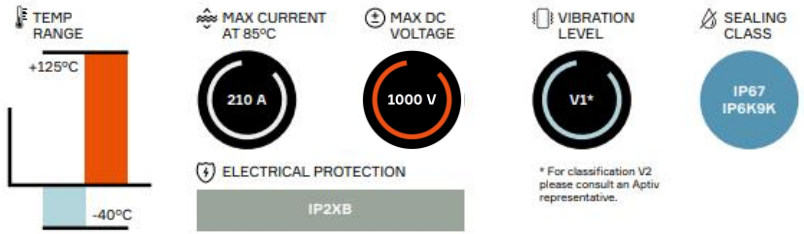
APPLICATIONS

AC / DC inverter
DC / DC converter
HV battery
Power electric box
HV PDU

AVAILABLE CONFIGURATIONS

Connector Type	Wire-to-device
Cable Exit Orientation	90°
Cable Range (mm²)	35 - 70
Terminal Type	8 mm round contact system
# of Power Terminals	2
Shielding	Individual
HVIL	Shunt on female
Assembly Assurance	CPA
Number of Indexes	1

PERFORMANCE



Header connector	Mating connector	BOM
35254402	35464221	1

ASSOCIATED PARTS

Part number	Description	BOM
Header		
15549847	DSQ 1.5 female terminal silver-plated 0.35 -0.50 mm^2	2
15549848	DSQ 1.5 female terminal silver-plated 0.75 -1.00 mm^2	
15441379	DCS/DSQ 1.5 red single wire seal 0.22 - 0.5 mm^2	2
15441380	DCS/DSQ 1.5 red single wire seal 0.75 - 1.0 mm^2	
Mating connector		
33502217	RCS890 female terminal silver-plated 35 - 50 mm^2	2
35225104	RCS890 female terminal silver-plated 70 mm^2	
Please consult us	Outer ferrule 35 mm^2	2
35628303	Outer ferrule 50 mm^2	
35628302	Outer ferrule 70 mm^2	
Please consult us	Inner ferrule 35 mm^2	2
35628300	Inner ferrule 50 mm^2	
35628299	Inner ferrule 70 mm^2	
Please consult us	Single wire seal & retainer 35 mm^2	2
35850205	Single wire seal & retainer 50 mm^2	
35823293	Single wire seal & retainer 70 mm^2	
Please consult us	Cable strain relief 35 mm^2	1
35850207	Cable strain relief 50 mm^2	
35464231	Cable strain relief 70 mm^2	

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SHIELDPACK™ HV RCS890 SI 2 way takeaways

- Field-proven RCS890 terminal system
- Individual shielding
- Simple flat device interface
- Wire sections up to 70 mm^2
- Unique compact slider design
- Safe header sealed in both mated and unmated position