High-current multi-head

HCM-667-0012 C02-05000-02

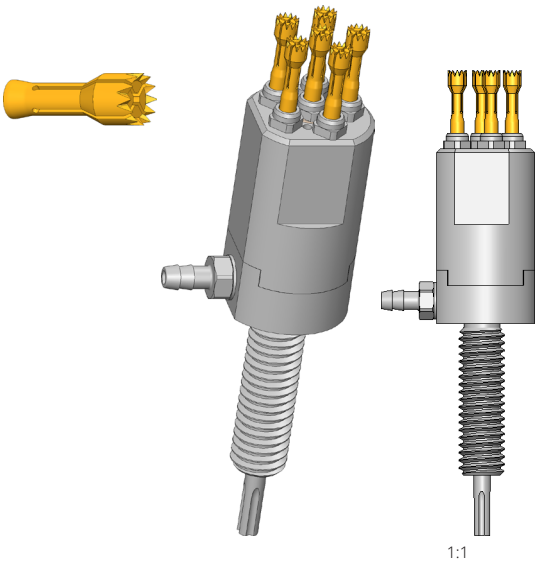
Item HCM-667-0004

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- Reliable contact of battery cells
- Modular design enables scalability of current transmission using well-established INGUN products
- Increase in maximum current transmission thanks to cooling feature
- Optional cooling of contact surface using GKS-667
- Voltage monitoring via a central sense contact probe possible
- Temperature measurement of contact surface using TKS-667 is an optional addition
- Easy installation in plate or busbar via the threaded connection

NEW BATTERY



1:1

Application

The HCMs were specially developed for the flexible scalability of high-current contacting. The modular design makes it possible to adapt the product characteristics to the application, and therefore always provide the right product for a high variable range of DUTs, as is the case with the contacting of battery cells.

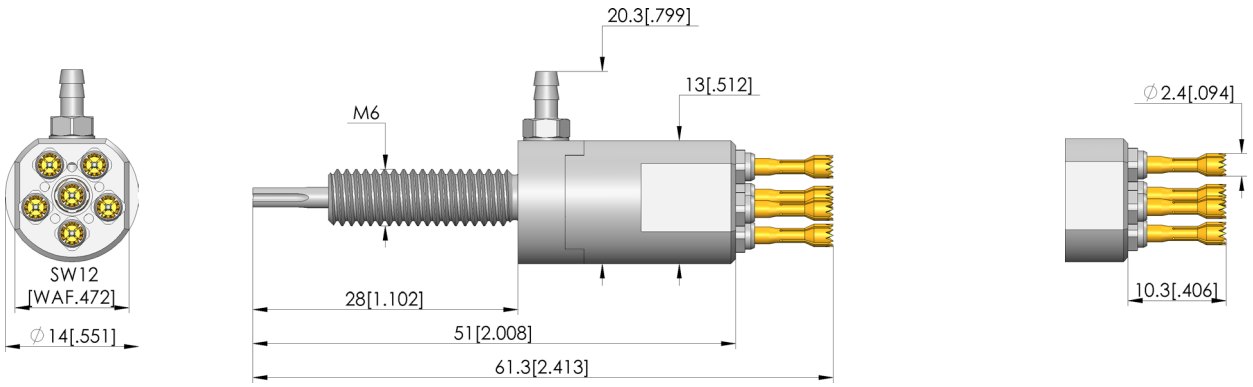
Construction

The HCMs each consist of a base body and several high-current test probes which create a parallel circuit. The functionality can be additionally extended using a centrally positioned sense contact probe or temperature measurement probe with integrated sense tap. Optional air-cooling probes, as an alternative to the current-transmitting test probes, are also available.

Installation

The HCMs can be installed in a corresponding hole on a probe plate using lock nuts or installed directly in a busbar via a corresponding threaded hole. If the HCM is installed in a non-conductive plate, for example, the current connection can be made at the threaded bolt via a cable lug. The optional sense contact probe, to be connected to the soldering recess provided, and the temperature sensor are dissipated centrally.

Note:
The base bodies are designed for either five or eight current-transmitting test probes from the HSS-120 and HSS-667 series with various tip styles, which can be freely configured in terms of both quantity and layout. By combining the modular high-current multi-head solution with HSS-667 probes, which were specifically developed for contacting battery cells with oxidised contact surfaces, it is possible to greatly reduce the power losses that occur during cell production.



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General data

Product group:	High-current test probe
Sub-product group:	Standard HSS (screw-in)
Series:	HCM-667 M screw-in
Grid:	15 mm [590 mil]
DUT / contact:	Cylindrical cells, prismatic cells
DUT / contact:	Battery
Battery application:	Formation
Installation type:	Screw-in
Quick-exchange system:	No
Type of test probe connection:	Thread connection
Adjustable installation height:	No
Non-rotating:	Yes
Screw-in torque:	60 cNm [5.31 lbf·in]
Min. temperature:	- 100 °C [- 212 °F]
Max. temperature:	+ 200 °C [+ 392 °F]
RoHS-compliant:	RoHS-3;6a;6c

Electrical data

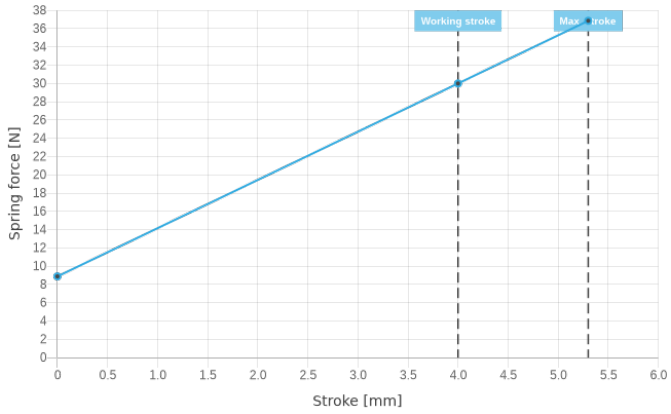
Current load capacity / rated current:	120 A
Typical resistance (Ri), connection on plunger:	<1 mOhm

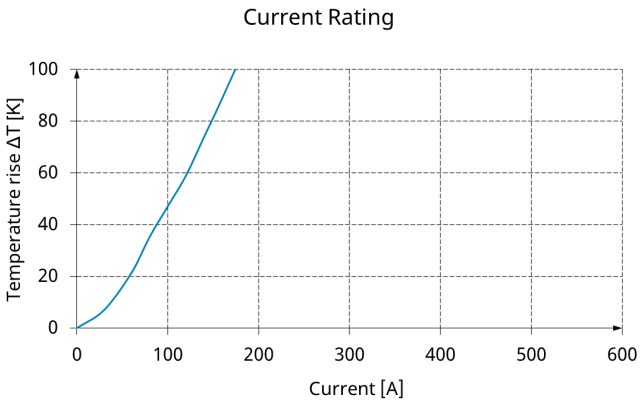
Mechanical data

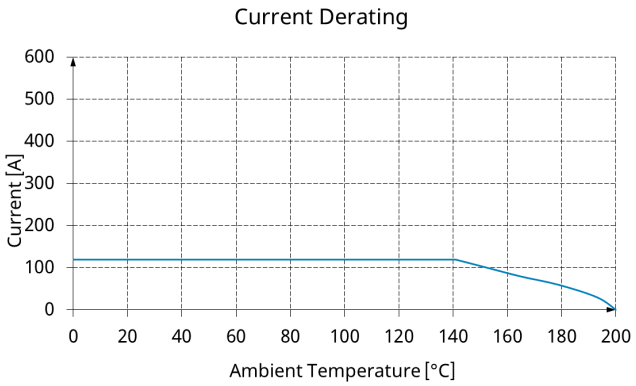
Total length:	61.3 mm [2.41 in]
Barrel diameter:	14 mm [.551 in]
Maximum stroke:	5.3 mm [.208 in]
Spring pre-load:	8.88 N [31.9 ozf]
Spring force at working stroke:	30 N [107 ozf]
Recommended working stroke:	4 mm [.157 in]

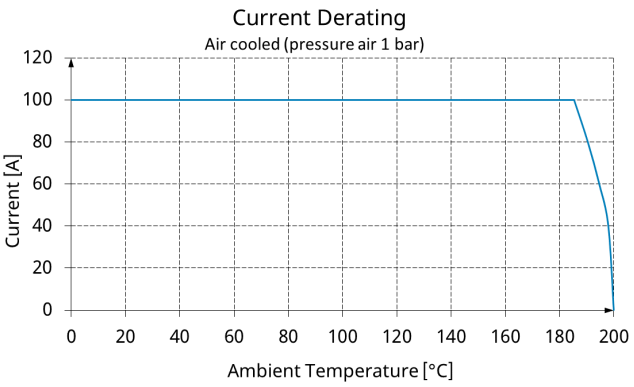
Tip style data

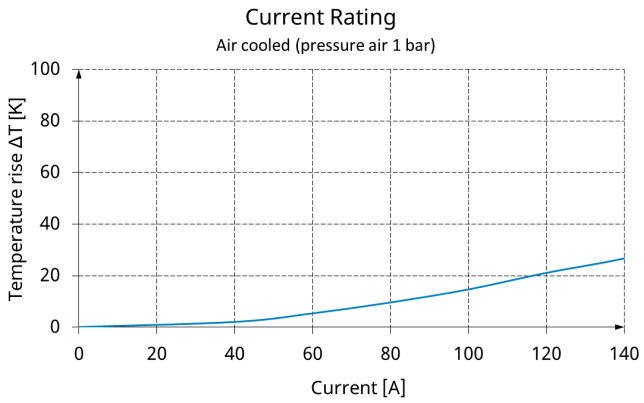
Tip style:	68
Tip diameter:	2.4 mm [.094 in]
Tip style surface:	A gold
Tip style material:	3 CuBe











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