# **HM Contact Systems**

Advanced Contact Assembly for High-Current Applications

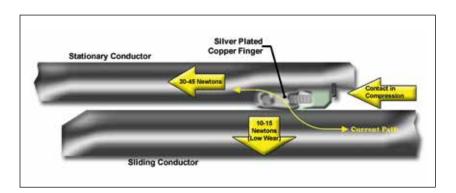


## High mass for high reliability

HM Contacts™ provide a high-performance alternative to delicate contact systems for current transfer applications in power systems. Developed for high current plug-in connections, the HM Contact design ensures maximum current transfer and stability with low contact resistance.

With continuous current ratings up to 8,000 amperes, and short circuit current ratings up through 100kA, HM Contacts provide a reliable long-term solution for a variety of applications.

From low voltage distribution systems to high voltage power equipment, Avail Bus Systems can supply an HM Contact to meet your needs.



# The HM concept

Featuring a High Mass (HM) design that delivers superior performance and efficiency, HM contacts are an ideal solution for joining high-current contacts. The HM contact assembly consists of a ring of spring-loaded individual silver-plated copper contacts, providing continuous low-pressure contact with the contact elements to ensure reliable, long-term operation.

The HM Contact can be customized for a variety of applications, with sizes ranging from 25mm to 150mm in diameter as well as linear and custom configurations.











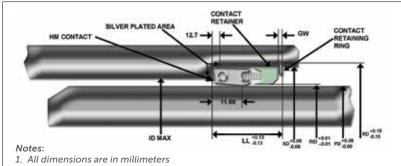
## **Applications**

- High Voltage Circuit Breakers
- Medium Voltage Switchgear
- Cable Terminations
- Busbar Connectors
- Gas Insulated Switchgear (GIS)
- Live Tank Circuit Breakers

## Features and benefits

Highly versatile and easy to install in a wide variety of OEM applications, the HM contact is well suited for circuit breakers and disconnects.

- Low contact resistance
- Low cost
- Minimum current flow path
- Elimination of oxidation/fretting
- Low wear ensures long service life
- · Adjusts for angular misalignment/high side load forces
- Short circuit capacities through 100kA
- Continuous current ratings through 8,000 A
- Custom designs available



2. HM Contacts are supplied with aluminum alloy, anodized aluminum, or valox retainers

### **Technical Specifications**

HM Contact Model	HM Contact Specifications										
	Standard Dimensions (mm)								Electrical Ratings		
	RID	PD	SD	ID	RD	GW	LL	Contact Fingers	Rated Current (A)	Short Circuit (kA)	Contact Resistance ( $\mu \Omega$ )
HM-38	38.27	38.10	53.34	44.45	55.75	1.42	25.12	39	2000	40	4.5
HM-44	44.65	44.40	59.64	50.80	62.31	1.42	25.12	44	2000	63	4.3
HM-60	61.27	60.00	75.29	66.80	78.64	1.73	25.42	59	2500	63	3.5
HM-70	70.87	70.00	85.29	76.20	88.37	1.73	25.43	69	3000	80	3.0
HM-95	95.50	95.00	110.29	101.60	114.43	1.73	25.42	95	6000	>100	2.5



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#### Notos:

- 1. Plug diameter (PD) and socket diameter (SD) dimensions are after silver plating
- 2. Continuous and short circuit ratings are typical. Actual ratings depend on the assembled configuration
- 3. Contact resistance is based on silver plated aluminium contact elements
- 4. GW tolerances are +0.10/-0.00 for a GW of 1.42, and +0.15/-0.00 for a GW of 1.73