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Fast Arc Quenching System in MV switchgear for protecting Workers and Assets

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Internal Arc fault is a very rare but possible event in the modern medium voltage switchgear. While the typical switchgear being classified for an arc fault withstand and containment does prevent people's injuries, it does not protect the asset from unrepairable damage, and does not eliminate all the hazards caused by arc gases.

A new technology available into the Australian medium voltage market is a fast mechanical arc quenching device "The Arc Killer", which eliminates the arc fault in less than 50 milliseconds, such that switchgear can be restored into service in a matter of hours, minimizing the downtime. It also fully protects personnel from energy and gases caused by an arc fault.