



We start you up

Special Applications

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MKS Products – unique in their application.



MKS DAFA 31-91

Dual application drive system

DAFA 31-91 series liquid resistance starters come in two editions. According to power range and analogue to the AFA series, either the blade or the classic ring electrode system is incorporated.

These liquid resistance starters are used in mill drives where the motors operate in parallel. Mill drives operate through a reduction gear unit and cannot be coupled electrically due to the mechanical coupling of the grinder. With a liquid resistance starter from the DAFA series, every motor operating in parallel has its own electrode system that prevents large overloads from occurring in the drive or in the mill gearing. The highest levels of precision are achieved for the resistance values by keeping both electrode systems synchronised and by maintaining a constant electrolyte temperature and concentration.



MKS SA

Switch gear

The medium voltage switch gear is used in direct-on-line starting with a liquid resistance starter for wound rotor motors from 2,000 to 10,000 HP. It is equipped with two panels for managing motor and transformer connections as standard and includes an earthing switch.

An extension with a capacitor bank is optional. A high-strength sheet steel enclosure and safety glass windows for visual inspection all conform to safety standards.

The MKS medium voltage switchgear provides optimum and reliable motor management. The electrical installation is ready for connection, pre-programmed and tested by us.



MKS ODA 1–8

Oil-cooled resistance starter

The ODA series of resistance starters is the new, further-developed generation of oil-cooled resistance starters for lower power range applications. Unlike conventional oil-cooled resistance starters, they have a freely-adjustable start up time independent of mains frequency or the engine speed of the servo motor as well as technological interfaces.

The ODA series of starters for slip ring motors comes equipped with predetermined resistance levels made from cast steel elements. They are well-suited to pump and ventilator drive systems and are employed in remote regions or where challenging environmental conditions are prevalent.



MKS SR 20–50

Slip resistor

Slip resistors are required when excessive loads are to be expected during operation, for example in a crusher drive. Slip resistors limit the torque in rotor circuits in slip ring motors when the motor is starting or is in operation. Torque limiting is normal during continuous operation. Should an overload occur, the slip resistor reduces the nominal speed and limits the motor torque. In normal operation the actual nominal speed remains constant.

MKS slip resistors build upon the AEG system and are made of normalised cast steel resistors. They are equipped with a slip of 5, 7 or 10% as standard.

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