

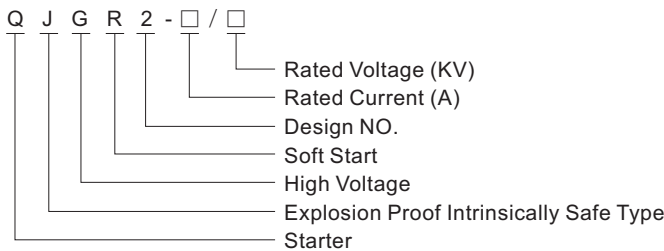
QJGR2 Mining Explosion Proof Intrinsically Safe High-voltage AC Soft Starter



Use

The high voltage soft starter are used in coal mine where is filled with explosive gas methane and coal dust, for high voltage motor soft start and stop in the electric circuit of rated three-phase AC voltage grade 10KV、6KV or 3.3KV, rated current is below 75A, 150A, 250A, 300A or 400A. Soft starter has merits of low starting current, starting speed in balance and adjustable, stable and reliable starting performance, little impact on power grid and equipment, etc., It is the popular and updated product for direct-start, triangle start, reactor start, voltage auto-reduced start, dual-speed start, etc. This series of starters are widely used in industry of big coal mine, oil and chemistry, also it is used together with mining pump, ventilation fan and compressor, milling machine, conveyor belt, etc.

Meaning of Type



Technical Data

Type	Rated voltage (kV)	Rated current (A)	Maximum motor control power(kW)			External diameter of cable(Φmm)		Dimension W × H × D (mm)	Weight (kg)
			3.3kV	6kV	10kV	Main circuit	Control circuit		
QJGR2-75	3.3、6、10	75	300	560	930	42~78	8~19	1830×2040×1460	2800
QJGR2-150		150	610	1120	1860				
QJGR2-250		250	1020	1860	3110				
QJGR2-300		300	1230	2240	3730				
QJGR2-400		400	1640	2980	4980				

The part of soft starter uses multiple thyristors in anti-parallel as CATELEC, the core component is ABB's thyristors; during the process of starting the motor, it can be controlled automatically according to predetermined curve with customer request, and ensures the starter complete the starting process smoothly and reliably; After motor starting process is completed, the controller can control the pick-up of AC connector, short-circuiting all the SCR (silicon control), make motor directly launch into power grid in total voltage operation.

Technical Descriptions

- Adopts the thyristor valve as the main circuit component, with the features of advanced technology, reliable functions, modularization structure and easy to maintain; optical fiber transmitting technology is used to separate low and high voltage parts; excellent performance, high reliability and stability with the application of advanced digital signal processing and system-integrated technology; adopts series of anti-interference measures, ensures strong electromagnetic compatibility, uses large size LCD display screen, film switch setting controller, easy to operate with good man-machine interface. Modularized design, and easy for inspecting with supplementary rail and movable handcart.
- Starting parameters can be set according to loading performance with high adaptability of loading types. It can form a high performance drive device with best mutual coordination, together with middle and high voltage motor in various application areas.
- Equipment composition: high voltage soft starter and the composing equipment are connected together, forms one with two or more systems, it can perform separate soft start, hard start and stop operation, or control soft start and stop operation in sequence to two or multiple high voltage motors, and at the same time, check the operation parameters of the motors anytime.
- Design is based on third generation digital microprocessor, with controlling function, comprehensive motor protection and simulation of soft and hard output function, etc.
- RS485 or CAN communication interface (operates through Modbus/Profibus protocol), achieve comprehensive controlling (soft start or soft stop, dual adjustment , etc.), and it can mostly control 32 sets of soft starters by the same host computer through shielding twisted-pair cables.