VTDRIVE

PRODUCTS CATALOGUE SOFT STARETER



Company Profile

VTdrive technology limited established in 2006, we specializes in motor control, we mainly manufacture frequency inverters, soft starters, break unit, break resistors, etc. We're a high-tech enterprise in China. We have an outstanding professional technical team with advanced technology and rich experience. We have a strict quality management system, stable and reliable product quality, and perfect after-sales service.

Our products adopt intelligent digital automatic control, complete system protection function, low cost, high system reliability and long service life. It's an emerging product that cannot be achieved by traditional equipment such as star/delta start, auto-decompression and start-up. Widely used and hot sale in many countries and various applications.

"innovation first, integrity first, quality assurance" is the company's consistent development tenet and our solemn commitment to customers. Integrity wins the market and quality guarantees the future. We will take the customers' satisfaction as the biggest pursuit, be brave in innovation, and serve with integrity, and make new and greater contribution to the development of China's electrical industry.











01 Bypass intelligent soft starter

Online intelligent soft starter

03 Built-in bypass soft starter

Online soft starter cabinet

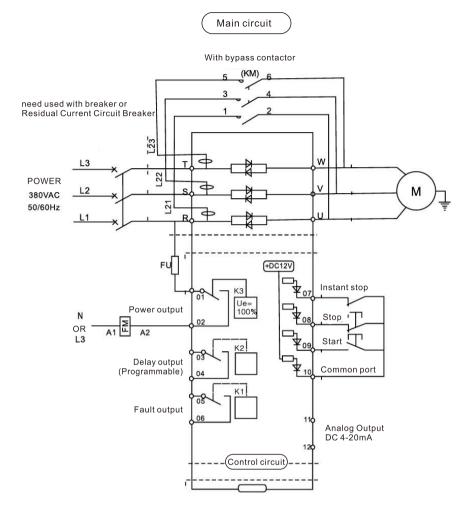


Intelligent external bypass soft starter is a latest start-up product, with long service life and low requirement for the environment. It designed and researched by our company with high technology, microprocessor as the core, combines SCR power drive, software and hardware protection, keyboard operation, torque control and fuzzy PID closed-loop algorithm and other advanced technologies. It integrates motor soft start, soft stop, light load energy saving and multiple functions into one. It is a newly built intelligent starter with international advanced level. This equipment has complete functions and implicit performance. It is widely used in the start-up process of transmission equipment, fans, pumps, compressors and most general applications.

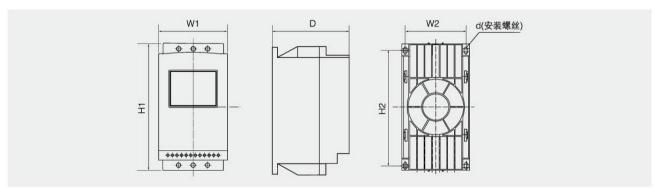
- Protection function: Motor protection during start-up, motor protection provides 12 kinds of protection functions after start-up and bypass, and there is no need to install other protection products, it helps to reduce investment of equipments.
- Software keep upgrading: Abundant parameters. Adding "Interval delay" parameter to avoid motor damage caused by frequent start; Adding "delay bypass switch" parameter to prevent the contactor burning by the high-current switching.



Main circuit wiring diagram



■ Products shape and installation size



Power	Outline Dimension(mm)			Installation Dimension (mm)			- Weight(kg)
	W1	H1	D	W2	H2	d	vveigitt(kg)
5.5-75KW	146	270	160	132	245	M6	<3.5
75-200KW	260	535	195	195	380	M8	<20
250-320KW	290	560	250	260	470	M8	<25
400-450KW	360	610	280	320	530	M10	<30
500-630KW	410	700	290	400	575	M10	<40

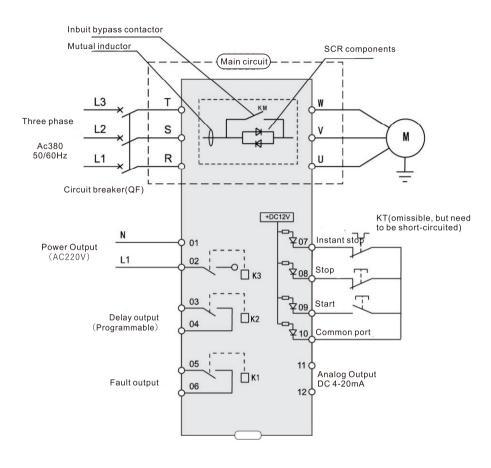


Intelligent built-in bypass soft starter with built-in three-phase AC contactor, combined with SCR power drive, software and hardware protection, keyboard operation, torque control and fuzzy PID closed-loop algorithm and other technologies. It integrates motor soft start, soft stop, light load energy saving and multiple functions are all in one. The newly built intelligent starting equipment with international advanced level. This equipment has complete functions and stable performance, and is widely used in the start-up process of transmission equipment, fans, pumps, compressors and other loads.

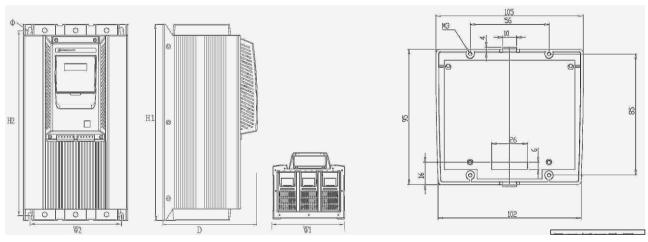
- Easy to control: support a variety of communication protocols; operation panel canbe used outside; programmable output; 4-20mA DC analog output.
- Long life:compared to intense heating, heavy harmonic pollution and high module consumption caused by online module, this type of soft starter has a longer using life and more safety.
- Liquid crystal display: this display is more intuitive and convenient. No need for control circuitry: it greatly saves the material cost.
- Space saving: compared with star-delta starter and self coupling decompression starter, the built-in bypass greatly reduces space requirement for the cabinet, so the user can arrange the electrical equipment in higher density, thereby reducing the cost.



Secondary wiring schematic



Products shape and installation size



Power	Outline Dimension(mm)			Installation Dimension(mm)			Weight(kg)
	W1	H1	D	W2	H2	d	vveignt(kg)
5.5-75KW	155	310	175	127	296	M6	5
90-200KW	240	565	240	235	490	M8	27

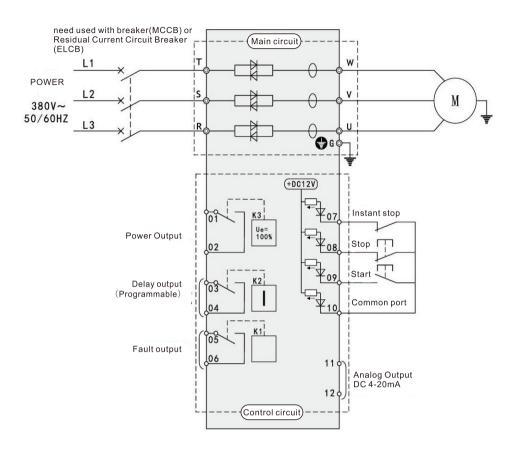


Intelligent online soft starter is a new product from our company. This product has a three-in-three-out SCR full-time on-line structure. It does not need an external AC contactor when put in a cabinet. Simplified primary and secondary wiring costs; Using high-power air-cooled radiators and high-speed axial fans internally to ensure the reliable operation of the soft-start at any time. Our product has perfect motor protection function, when using it, be sure heat dissipation in the cabinet is good. Our product is suitable for the control, soft-start and stepless acceleration in many equipments, like: various AC motors, fans, water pumps, spray pumps, sewage pumps, deep well pumps, air compressors, brick making machines, crushers, mining machinery and so on.

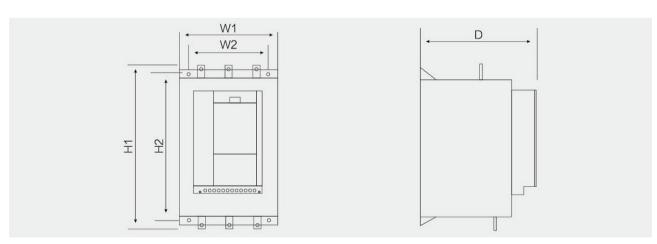
- Phase failure protection: When any one of the three phases is disconnected, the protection action time is
 <1min;
- Three-phase unbalance protection: When the unbalance of one phase K1 or K2 is> 10%, the protection action time is <10 min;
- Over-current protection: when the motor stalls, the protector will delay for (± 1) s action;
- Overvoltage protection: when the power supply voltage UO120%, the protection action time is <1s;
- Under voltage protection: when the power supply voltage (60% 75%) Ue, the protection voltage action time < 60s;
- · Reset function: manual stop key reset;
- Over-temperature protection: When the soft-start runs at over-temperature, the soft-start shuts down itself and reports a soft-start overheating fault.



Secondary wiring schematic



Products shape and installation size



Power	Outline Dimension(mm)			Installation Dimension(mm)			- Weight(kg)
	W1	H1	D	W2	H2	d	vveigitt(kg)
5.5-45KW	168	325	223	95	300	M6	<6
55-90KW	217	385	265	145	350	M8	<13
115-160KW	400	515	255	320	465	M8	<25
185-320KW	445	605	265	370	530	M8	<35
400-600KW	620	790	335	560	660	M10	<70

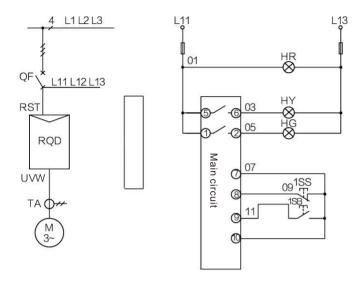


The online intelligent soft start cabinet GJR is the latest product developed by our company. There is no AC contactor in the soft start cabinet of SCR full-time online integrated motor, and there is no contact in switching. It can adapt to the reliable operation in the harsh environment such as smoke, ash, dust and sand. The product has a wide working voltage range and is suitable for low-voltage operation≥320v; the product is three in (RST connected to power supply) three out (UVW connected to motor) structure, simple and convenient wiring; the product has motor protection function, software parameters up to 21, which can meet most application occasions. This product must be used to ensure that the surrounding ventilation and heat dissipation effect is good. Widely used in transmission equipment, fans, pumps, compressors and other loads in the start-up process.

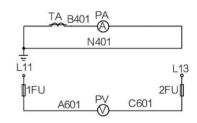
- The price is cheaper and the maintenance cost is lower, because no bypass contactor
- It can adapt to the bad environment such as smoke, ash, dust and sand;
- The weight of the cabinet is only one-third of the autotransformer starting cabinet, and the volume is only one-half of the autotransformer;
- The cabinet has complete protection functions, reliable performance, long service life and high economic benefits.



Secondary wiring schematic

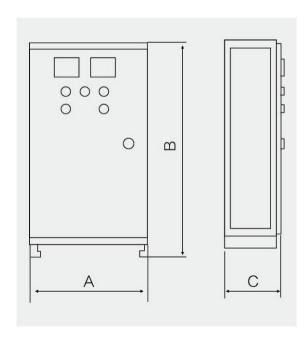


Power	
Fuse	
Power supply indication	
The bypass instruction	
Failure indication	Control
Run indication	circuit
Instant stop	
Soft stop buttom	
Soft start buttom	
Common port	

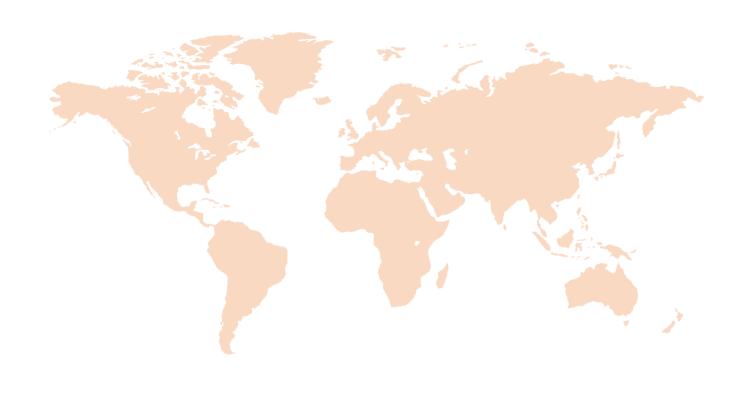


Current measurement	T4	-ii*
Voltage measurement	lest	circuit

Products shape and installation size



Power	Outline Dimension(mm)					
i owei	W1	H1	D			
5.5-75KW	480	1000	350			
90-200KW	550	1250	380			
250-400KW	650	1480	470			
450-630KW	650	1700	470			



CONTACT US — You get more...

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