Soft Starter AJR3-N User Manual



Warning message



The product should be operated by qualified electricians as per safety specifications, including installation, pilot run and maintenance, etc;

The voltage used by the product is dangerous, which may cause serious injury or death of others. Prohibit touching terminal after electrifying the device or during operation. Although the device is switched off, voltage may still exist in output terminal;

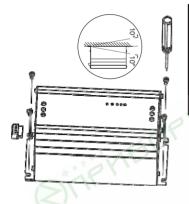
The product should be used under rated specification of product. Before use, please check the accuracy of various parameters such as power, motor and frequency of product or device.

The product has passed insulation test before leaving factory. Incorrect megger test may damage product or shorten product life.

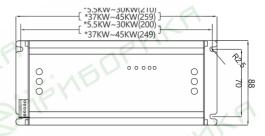
Electrical parameters

Standard	GB 14048.6-2008/IEC 60947-4-2 : 2002			
Rated operational voltage	200~415V(-15%+10%)			
Max. length between soft starter and cable	300m			
Permissible ambient environment	Operation	-25°C~+60°C (consider reducing capacity if > 40°C)		
	Storage	-40°C∼+70°C		
Protection grade	IP20			
Rated power	50/60Hz			
Permissible installation height	5000m (start to reduce capacity for above 1000m)			
Starting frequency	≤ 20 times/hour (Class10 standard load)			

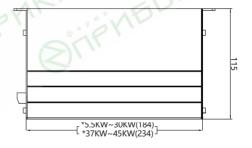
(Unit: mm)



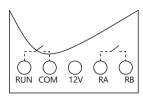
Installation sketch







Terminal description





Terminal marking of major loop	Terminal name	Function description	
L1、L2、L3	Mains input of major loop	Connect three-phase source	
T1、T2、T3	Output connection of soft start	Connect three-phase motor	

Terminal marking of control loop	Terminal name	Function description	
RUN	Enable input	When closing run and com, start to operate When breaking run and com, motor slows down and halts	
СОМ	Common port	run and common port at 12V	
12V Power terminal		Interior power output terminal at 12V, 300mA at maximum, prohibit overload	
RA、RB	Indication of working status	Working status: relay output, normally open contact, close during operation, break if stall or fault, relay capacity 250V/AC 0.3A	

Power diagram

Model	230V/KW	400V/KW	Rated current A
AJR3-N5R5	3	5.5	13
AJR3-N7R5	4	7.5	17
AJR3-N11	5.5	11	25
AJR3-N15	7.5	15	32
AJR3-N18	7.5	18.5	37
AJR3-N22	11	22	45
AJR3-N30	15	30	60
AJR3-N37	18.5	37	75
AJR3-N45	22	45	90

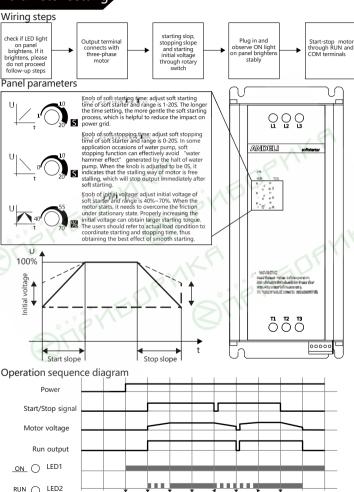
AC380V 50HZ N PE

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Parameter setting



Start command Byps Apply main voltage Finish starting

Restart after stalling midway

Stop command

Bypass operation