GD20-SS2 product introduce

1. Rated parameters and selection of GD20-SS2 series

Model	Voltage degree	Rated output power (kW)	Rated input current (A)	Rated output current (A)	Adaptable motor
GD20-0R4G-SS2	Single phase 230V	0.4	6.5	4.2	0.2
GD20-0R7G-SS2		0.75	9.3	7.2	0.4
GD20-1R5G-SS2		1.5	15.7	10.2	0.75
GD20-2R2G-SS2		2.2	24	14	1.5
GD20-004G-SS2		3.7	38	25	2.2
GD20-5R5G-SS2		5.5	52	35	3.7

Note: the recommended motor is for two phase control selection, it's only for reference. Please according to the criteria which 1.414 times of current selection.
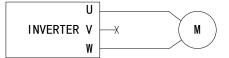
2. Product size

Model	W1	H1	D1	Dimension
GD20-0R4G-SS2	80	160	123.5	
GD20-0R7G-SS2	80	185	140.5	
GD20-1R5G-SS2	80	185	140.5	
GD20-2R2G-SS2	170	320	196.3	
GD20-004G-SS2	170	320	196.3	
GD20-5R5G-SS2	200	340.6	184.3	

3. Debugging

For the single-phase motor drive, there are two options for the following, will be introduced separately.

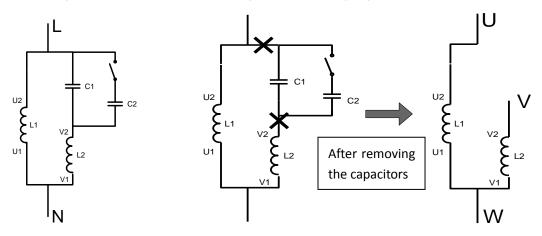**1. Inverter's output is single-phase AC, Single-phase motor single-phase control**

The principle of inverter selection is: Choose a 1~2 times inverter with larger power than the motor.

2. Single-phase motor two-phase control

Wiring

If the single-phase pump cannot be started, the two-phase control method must be used, and the start-up and running capacitors (if any) of the motor must be removed. The figure below shows the internal wiring of the common single-phase motor. In the figure, L1, L2, C1, and C2 indicate the running winding, start-up winding, running capacitor, and start-up capacitor. When the motor speed exceeds 75% of the rated speed, the start-up capacitor is switched off.

U1 and V1 are the common terminals of the windings. Connect them to the output terminal W of the solar pumping inverter. Connect U2 to the output terminal U of the inverter. Connect V2 to the output terminal V of the inverter.

Parameters set

P04.34=0X01.
Adjust the value of P04.34 and P04.35 based on the real situation.
Inverter selection principle: the rated current of inverter is greater than 1.414 times of the rated current of motor.