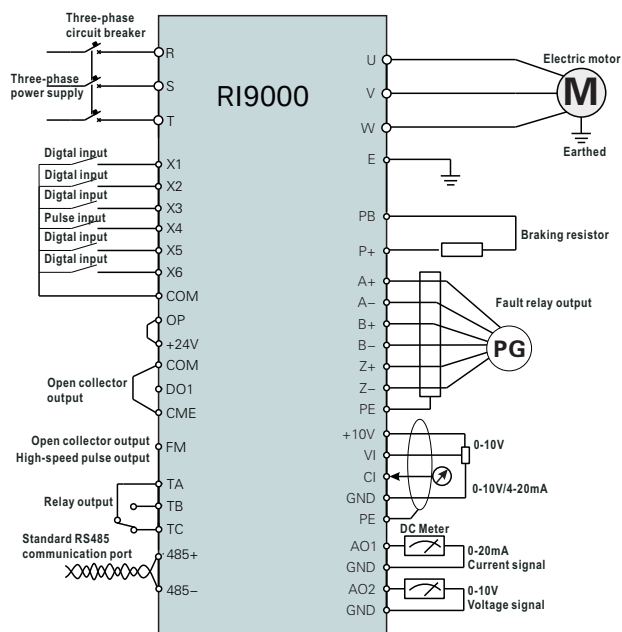


Items	Specifications
Analog output channel	4~20mA or 0~10V optional, setting frequency and output frequency, etc feature output
Switch/pulse output channel	2 channels Programmable open collectors output, 2 channels relays output, 1 channel 0~20KHz pulse output
Analog input channel	4~20mA: 0~10V: 2 optional analog inputs
Analog output channel	4~20mA or 0~10V optional, setting frequency and output frequency, etc feature output
Switch/pulse output channel	Programmable open collector output: relay output :0~20KHz pulse output:
Optional parts	Braking unit: remote control panel: cable: panel mounting feet, etc.

5 Wiring diagram of control circuit



Energy efficient , beautiful environment



RI9000 SERIES AC DRIVE

RIEVTECH ELECTRONIC CO., LTD

📍 Add: No.10 Building,1111 Fuying Road, Jiangning District,

Nanjing, China

☎ Tel: +86-025-52713690

☎ Fax: +86-025-52713691

🌐 <http://www.rievtech.com>



For RI9000 Dimension, please refer to the User Manual.

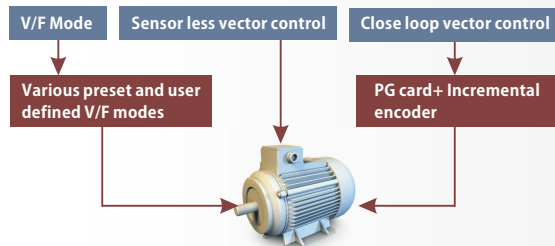
<http://www.rievtech.com>

1 RI9000 High Performance Inverter

With built-in C3 Class EMC filter

RI9000 general purpose high performance inverter adopts advanced control techniques applying in Textile machine, Metal manufacturing machine, Woodworking machine, Hoisting machine, Printing machine, Paper machines and etc.

◆ Varies control mode



◆ High torque output

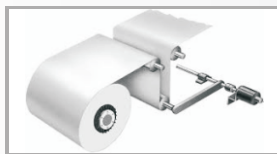
0.5HZ 150% Torque output (Sensorless vector)
0HZ 180% Torque output (Closed loop vector)

◆ Pre-excitation



Improve motor starting torque output

◆ Torque control

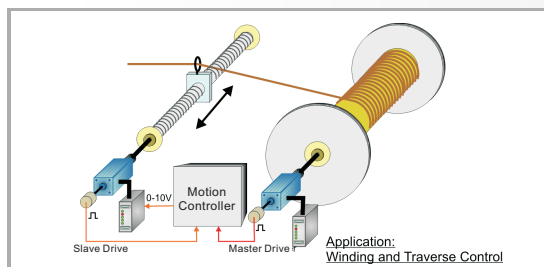


In winding application, inverter will increase and decrease output speed automatically, according to Torque output setting.

◆ High precision PID closed loop

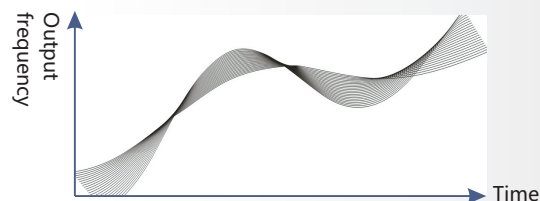
◆ Winding diameter calculation

In wiring drawing application, inverter will calculate the winding angular velocity. With PID control and winding angular velocity, inverter will adjust the output frequency automatically.



◆ 0.75- 37KW can built-in Braking Unite

S curve smooth start and stop performance



2 Model Description

RI9000 - 4 T 0015 G / 0022P

① ② ③ ④ ⑤ ⑥

key	No	Content
Abbreviation	①	Rievtech RI9000
Voltage level	②	2: 220V 4: 400V
Input voltage	③	S: Single T: Three Phase
Power adapter	④	0.2KW~630KW
Load type	⑤	G: Constant Torque
	⑥	P: Fan pump

3 Specification

Model		Rated Capacity (KVA)	Rated output current(A)	Motor power (KW)
G	P			
RI 9000 series/Input voltage: 400V three-phase				
RI9000-4T0007G	RI9000-4T0015P	1.5	2.5/4.0	0.75/1.5
RI9000-4T0015G	RI9000-4T0022P	2.5	4.0/6.0	1.5/2.2
RI9000-4T0022G	RI9000-4T0037P	3.0	6.0/9.6	2.2/3.7
RI9000-4T0037G	RI9000-4T0055P	5.9	9.6/14.0	3.7/5.5
RI9000-4T0055G	RI9000-4T0075P	8.5	14.0/17.0	5.5/7.5
RI9000-4T0075G	RI9000-4T0110P	11	17.0/25	7.5/11
RI9000-4T0110G	RI9000-4T0150P	17	25/32	11/15
RI9000-4T0150G	RI9000-4T0185P	21.7	32/39	15/18.5
RI9000-4T0185G	RI9000-4T0220P	25.7	39/45	18.5/22
RI9000-4T0220G	RI9000-4T0300P	29.6	45/60	22/30
RI9000-4T0300G	RI9000-4T0370P	39.5	60/75	30/37
RI9000-4T0370G	RI9000-4T0450P	49.4	75/91	37/45
RI9000-4T0450G	RI9000-4T0550P	60	91/112	45/55
RI9000-4T0550G	RI9000-4T0750P	73.7	112/150	55/75
RI9000-4T0750G	RI9000-4T0900P	99	150/176	75/90
RI9000-4T0900G	RI9000-4T1100P	116	176/210	90/110
RI9000-4T1100G	RI9000-4T1320P	138	210/253	110/132

Model		Rated Capacity (KVA)	Rated output current(A)	Motor power (KW)
G	P			
RI9000-4T1320G	RI9000-4T1600P	167	253/304	132/160
RI9000-4T1600G	RI9000-4T1850P	200	304/355	160/187
RI9000-4T1850G	RI9000-4T2000P	234	355/377	187/200
RI9000-4T2000G	RI9000-4T2200P	248	377/426	200/220
RI9000-4T2200G	RI9000-4T2500P	280	426/474	220/250
RI9000-4T2500G	RI9000-4T2800P	318	474/520	250/280
RI9000-4T2800G	RI9000-4T3150P	342	520/600	280/315
RI9000-4T3150G	RI9000-4T3500P	390	600/660	315/350
RI9000-4T3500G	RI9000-4T4000P	435	660/750	350/400
RI9000-4T4000G	RI9000-4T4500P	493	750/850	400/4500
RI9000-4T4500G	RI9000-4T5000P	560	850/900	450/500

4 Technical Specification

Items	Specifications
Input	Rated Voltage three phase 380-480V;50Hz/60Hz
	Range Voltage: ±20% voltage unbalance rate:<3%; frequency: ±5%
	Frequency resolution 0.01Hz
	Overload ability 150% rated current for1minute, 180% rated current for3 seconds
Control function	Control mode Sensorless vector control (with optimal low frequency compensation)
	Frequency Accuracy Digital setting: The highest frequency×± 0.01% Analog setting: The highest frequency ×±0.2%
	Frequency resolution Digital setting: 0.01Hz; Analog setting: The highest frequency× 0.1%
	Start frequency 0.40Hz~20.00Hz
	Torque boost Auto torque boost, manual torque boost 0.1%~30.0%
	V/F curve Five ways: constant torque V/F curve, 1 kind of user defined V/F curve, 3 kinds of down torque curve(2.0/1.7/1.2times the power)
	Acc/Dec. curve Two ways: linear Acc/Dec.S-curveAcc/Dec.;7 kinds of Acc/Dec. time, Time unit(minute/second) optional, max. time: 6000 minutes.
	DC braking DC braking start frequency: 0~15.00Hz braking time: 0~60.0s braking current: 0~80%
	Energy consuming braking Below 22KW drive built-in energy consuming braking unit, external braking resistor is optional.
	Jog running Jog frequency range:0.1Hz~50.00Hz, JOG Acc/Dec. time: 0.1~60.0s
	EMC Filter 380V models can meet the requirements of EU IEC61800-3 C3; Optional external filters can meet IEC61800-3 C2 Class
	Multi-stage speed running Multi-stage speed running available through built-in PLC or control terminals
Running function	Auto voltage regulation Keep a stable voltage automatically when the grid voltage transients
	Auto energy saving running Saving energy by auto optimizing V/F curve according to the load
	Auto current limiting Auto current limiting to prevent frequent over current fault trip
	Multi pumps control With water supply card, the function can implement multi- pumps constant pressure water supply
Running function	Communication 2 field bus: Modbus, Profibus (external adding)
	Running command channel Control panel : control terminal :serial port :3 channels switchable
	Switch input channel FWD/REV command: 8channels programmable switch inputs, 35kinds of function can be set separately
Running function	Analog input channel 4~20mA: 0-10V: 2 optional analog inputs