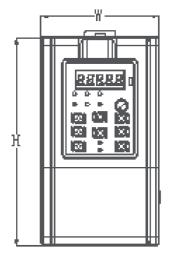
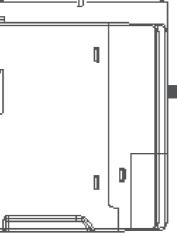
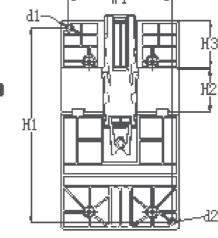
F1-1~F2-2 Structure Dimension Diagram







Frame	External and installation dimensions (mm)									
	W	Н	D	W1	H1	H2	H3	d 1	d2	Weight (Kg)
F1-1	75	150	120	65	140	35	38.5	4.5	4.5	0.95
F1-2	93	171	132	82	160	35	39	4.5	4.5	1.46

Electric Specification

Input Power	Model No.	Motor Power (kW)	Power Capacity (kVA)	Input Current (A)	Output Current (A)	Frame	Dimension (W*H*D) (mm)
220V AC 1 Phase	FR150A-2S-0.2B	0.2	0.5	4.9	1.6		75*150*120
	FR150A-2S-0.4B	0.4	1.0	6.5	2.5	F1-1	
	FR150A-2S-0.7B	0.75	1.5	9.3	4.2		
	FR150A-2S-1.5B	1.5	3.0	15.7	7.5	F1-2	93*171*132
	FR150A-2S-2.2B	2.2	4.0	24	9.5	F I-2	
380V AC 3 Phase	FR150A-4T-0.7B	0.75	1.5	3.4	2.5	F 4.4	75*150*120
	FR150A-4T-1.5B	1.5	3.0	5.0	4.2	F1-1	
	FR150A-4T-2.2B	2.2	4.0	5.8	5.5	F1-2	93*171*132
	FR150A-4T-4.0B	4	6.0	11	9.5	F 1 - 2	

FRECON

FRECON ELECTRIC (SHENZHEN) CO.,LTD

Add: 2nd, No.3 Zhenbao Industrial Zone, No.137 Shiyan Road, Shiyan Street, Bao'an, Shenzhen, China Tel:0755-33067999 Fax:0755-33067186 E-Mail: overseas@frecon.com.cn Web:www.frecon.com.cn





Frecon Website 202004(V1.0)

Facebook ID









FR150A Series Multifunctional Drive





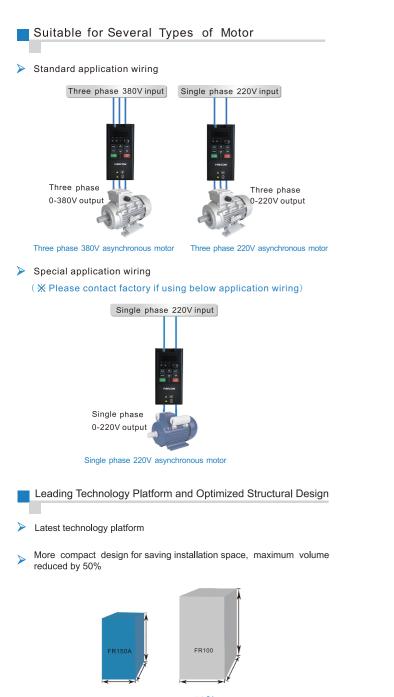




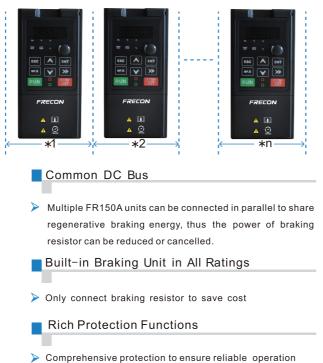
FRECON www.frecon.com.cn

FR150A Series Summary

FR150A series multifunctional drive is a product developed on the latest technology platform of FRECON, with advanced control modes for high torque, high precision, high reliability, and wide-speed drive. The FR150A features multifunctional control such as built-in PID, simple PLC, programmable input and output terminals, RS485, analog input and output etc, ideal for equipment matching, engineering reconstruction, automation control and other special industry applications.



Volume reduced by 50%



Built-in RS485 Communication (Modbus)

> RS 485 terminals, support standard Modbus RTU

•

R1A R1B R1C

communication for system integration

+24V PLC GND Y1 +10V AI1 AI2 AO1

PC MONITOR

Common parameters setting rapidly to save customer's

> Customized application macro according to industry demand

8888888

DI1 DI2 DI3 DI4 DI7/HI GND 485+ 485-

Convenient Debugging

> Powerful background software

FRECON

Short-cut menu

time

Technical Parameters

	Item					
Input Power	Rated input voltage	Single phase 220 V (-15				
	Rated input frequer	50Hz/60Hz, ±5%				
0.4.4.5	Rated output voltag	e (V)	0~Rated input voltag			
Output Power	Rated output frequ	0.00~600.00 Hz, Units:				
	Control mode	V/F control Sensor-				
Control Characteristic	Speed range	1:50 (V/F control) 1:10				
	Speed accuracy	±0.5% (V/F control)				
	Speed fluctuation	±0.3% (sensor-less vector				
	Torque response		< 10ms (sensor-less vect			
	Starting torque	0.5Hz: 180% (V/F control,				
	Carrier frequency		0.7kHz ~ 16kHz			
	Overload capability		150 % Rated current 60s			
	Torque boost		Automatic torque boost			
Basic	V/F curve	Three ways: Straight				
functions	Acceleration and de	celeration	Line or curve acceleratio			
	curve		Four kinds of acceleration			
	DC broke		DC brake start frequency			
	DC brake		DC brake current:0.0%			
	Command source		The control panel, contro			
	Frequency given		8 kinds of frequency so			
Bun			5 switch input terminals,			
Run	Input terminal		2-channel analog inputs			
			voltage and current opti			
	Output terminal		1 switch output terminal,1			
	Parameter copy, parameter backup, flexible parameter of					
Featured	control, fixed length control, count function, three faults re					
functions	protection, restart upon power loss, Motor thermal protection					
	control					
Protection	Provide fault protection function: overcurrent, overvolta					
function	protection	protection				
Environment	Place of Indoc		s, no direct sunlight, free fron			
	operation	vapor, w	r, water drop and salt, etc.			
	Altitude	0 ~ 2000m				
			e 1% for every 100m when the			
	Ambient	-10°C ~ 50°C				
	temperature		JU U			
Others	Efficiency Rated		oower; ≥93%			
	Installation	Wall-mounted or Flange moun				
Guioro	IP grade	IP20				
	Cooling method	Fan coo	led			



Specification

 $5\% \sim +20\%$ Three phase 380 V (-15% ~ +30%)

ge, Error<±3

: 0.01Hz

-less vector control 1 Sensor-less vector control 2

00 (sensor-less vector control 1) 1:200(sensor-less vector control 2) ±0.2% (sensor-less vector control 1 & 2)

tor control 1 & 2)

ctor control 1 & 2)

, sensor-less vector control 1) 0.25Hz: 180 % (sensor-less vector control 2)

180% Rated current 10s 200 % Rated current 1s

Manual to rgue boost 0.1%~30.0%

Multi-point type N Th-type V/F curve

on and deceleration mode

on and deceleration time, Ramp time range: $0.0 \sim 6000.0s$

cy: 0.00~600.00Hz DC brake time:0.0s~10.0s

-150.0%

ol terminal, serial communication port given

urces

one way to make high-speed pulse input

including 1-channel voltage input, 1-channel

ions

relay output terminal,1 analog output terminal

displayed & hidden. Reliable speed search started. Timing

recorded, overvoltage stall protection, undervoltage stall

ction, Wobble frequency control, High-precision torque

age, undervoltage, overtemperature, overload etc.

om dust, corrosive gases, flammable gases, oil mist, water

he altitude is above 1000 meters