

A DRIVES COMPANY



**HFR**  
1000/2000

**ENGLISH**

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**HFR 1000 / 2000**  
SOFTSTARTER

15 kW - 500 kW



# HFR 1000/2000

15 kW - 500 kW  
SOFTSTARTER

## HIGHLIGHTS

For smooth start of any kind of asynchronous motors, reduction of inrush current and mechanical stress.

Startup control mode:

- Current mode: Start ramp at defined current limit
- Voltage mode: Startup at defined voltage ramp
- Boost function

Startup control mode:

- Free stop by inertia
- Stop controlled by voltage ramp

Controlmode: - Keypad, terminal, MODBUS

Startup control mode:

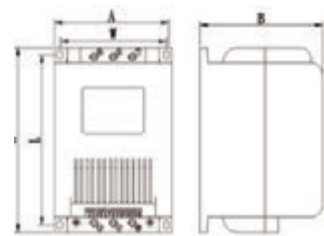
- Programmable I/O channels
- MODBUS interface
- Integrated LED display, to set parameters and to display drive status
- Optional remote control
- Relay output for Bypass with programmable delay
- Status relays output
- Parallel operation of multiple motors

Intelligent protection functions: Overcurrent, overtemperature, motor overload, phase symmetry

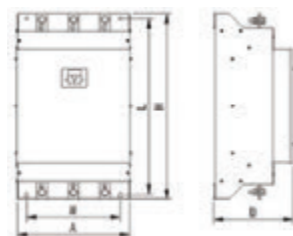
## HFR 1000 - TECHNICAL PRODUCT DATA



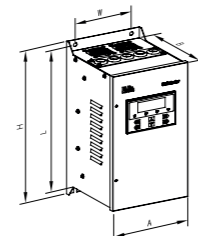
Model	Applicable Motor (KW)	Rated Input Voltage(V)	Rated Input Current(A)	Tructure Code	External Dimension (A*B*H)	Mounting Size (W*L)	Remarks
HFR1015	15	~380 three-phase	30	R1	250*153*162	219*140	Plastic Hanging
HFR1022	22	~380 three-phase	45	R1	250*153*162	219*140	
HFR1030	30	~380 three-phase	60	R1	250*153*162	219*140	
HFR1037	37	~380 three-phase	75	R1	250*153*162	219*140	
HFR1045	45	~380 three-phase	90	R1	250*153*162	219*140	
HFR1055	55	~380 three-phase	110	R1	250*153*162	219*140	
HFR1075	75	~380 three-phase	150	R2	510*260*194	389*232.5	
HFR1090	90	~380 three-phase	180	R2	510*260*194	389*232.5	
HFR1110	110	~380 three-phase	220	R2	510*260*194	389*232.5	
HFR1132	132	~380 three-phase	260	R2	510*260*194	389*232.5	
HFR1160	160	~380 three-phase	320	R2	510*260*194	389*232.5	
HFR1220	220	~380 three-phase	440	R3	590*360*255	560*300	Metal Hanging
HFR1250	250	~380 three-phase	500	R3	590*360*255	560*300	
HFR1280	280	~380 three-phase	560	R3	590*360*255	560*300	
HFR1315	315	~380 three-phase	630	R3	590*360*255	560*300	



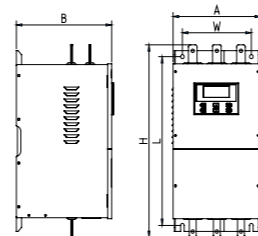
R1 - R2



R3



RC1



RC2 - RC4

## HFR 2000 - TECHNICAL PRODUCT DATA

Model	Applicable Motor (KW)	Rated Input Voltage(V)	Rated Input Current(A)	Tructure Code	External Dimension (A*B*H)	Mounting Size (W*L)	Remarks
HFR2015	15	~380 three-phase	30	RC1	370*200*220	150*350	Metal Hanging
HFR2022	22	~380 three-phase	45	RC1	370*200*220	150*350	
HFR2030	30	~380 three-phase	60	RC1	370*200*220	150*350	
HFR2037	37	~380 three-phase	75	RC1	370*200*220	150*350	
HFR2045	45	~380 three-phase	90	RC1	370*200*220	150*350	
HFR2055	55	~380 three-phase	110	RC1	370*200*220	150*350	
HFR2075	75	~380 three-phase	150	RC2	487.5*254*276.5	200*424.5	
HFR2090	90	~380 three-phase	180	RC2	487.5*254*276.5	200*424.5	
HFR2110	110	~380 three-phase	220	RC2	487.5*254*276.5	200*424.5	
HFR2132	132	~380 three-phase	260	RC2	487.5*254*276.5	200*424.5	
HFR2160	160	~380 three-phase	320	RC2	487.5*254*276.5	200*424.5	
HFR2200	200	~380 three-phase	400	RC3	555*364.5*351.5	322*475	
HFR2220	220	~380 three-phase	440	RC3	555*364.5*351.5	322*475	
HFR2250	250	~380 three-phase	400	RC3	555*364.5*351.5	322*475	
HFR2280	280	~380 three-phase	560	RC3	555*364.5*351.5	322*475	
HFR2315	315	~380 three-phase	630	RC3	555*364.5*351.5	322*475	
HFR2355	355	~380 three-phase	700	RC4	660*475.5*317.5	402*607.5	
HFR2400	400	~380 three-phase	800	RC4	660*475.5*317.5	402*607.5	
HFR2450	450	~380 three-phase	900	RC4	660*475.5*317.5	402*607.5	
HFR2500	500	~380 three-phase	1000	RC4	660*475.5*317.5	402*607.5	

## HFR1000/HFR2000 STRUCTURE INSTRUCTION

Item	Contents	
Input power supply	AC 400V±20%, 50/60Hz	
Applicable motor	Standard asynchronous motor	
Startup mode	Voltage ramp startup (1-120s); Current limiting startup; Kick startup, Jogging startup (Only for HFR2000)	
Stop mode	Free STOP, Voltage controlled STOP	
Analog output	Current mode output 0(4).....20 mA	
Relay output	Bypass control relays (7A/230V), fault relays	
Protection function	Out phase, over-load, over current over-heating	
Protection level	IP20	
Cooling	Convection cooling (HFR1000) forced ventilation (HFR2000)	
Installation mode	Cabinet mounting	
Environment conditions	Equipment Location	In an indoor location, Prevent exposure from direct sunlight, Free from dust, tany caustic gases, flammable gases, steam or the salt-contented, etc.
	Environment Temperature	-10°C~+45°C
	Environment Humidity	Below 95%
	Vibration Strength	Below 0.5g
	Height above sea level	1000m or below