

Product introduction:

Chief series frequency inverter is a brand-new vector high-performance frequency inverter. By decoupling control of motor magnetic flux current and torque current to achieve rapid-response and accurate torque control, can run a wide range of high-precision speed and torque control operation. which is suitable to industrial automation the in every field.

Advantage Feature:

- ◆ Input voltage range:380/220V±15%.
- ◆ Input frequency range:47~ 63Hz.
- ◆ Output voltage range:0 ~ rated input voltage.
- ◆ Output frequency range:0 ~ 600Hz.
- ◆ Overload capacity: 60s with 150%of rated current, 10s with 180% of rated current.
- ◆ Self study motor parameter function.
- ◆ Control mode: Sensorless Vector Control (SVC);Constant Torque; V/F Control.
- ◆ Speed accuracy: Sensorless Vector Control: ±0.5% of maximum speed (SVC).
- ◆ Starting torque: 150% of rated torque at 0.5Hz (SVC).
- ◆ Programmable timing running(Simple PLC).
- ◆ In all model inverters integrated IGBT are used.
- ◆ The malfunction ratio is 0.1% within 18 months warranty.



Model Introduction:

Model		Voltage (V)	Power (KW)	Current (A)	G.W (KG)	Size H/W/D(mm)
G Series CHIEF-G1/G3	P Series CHIEF-P3					
CHIEF-G1-0d4		1 AC 220V -15% ~ +15%	0.4	2.5	3	150/96/134
CHIEF-G1-d75			0.75	4		
CHIEF-G1-1d5			1.5	7		
CHIEF-G1-2d2			2.2	10	3.5	
CHIEF-G1-004			4	16	4.5	
CHIEF-G1-5d5			5.5	23		
CHIEF-G3-d75	CHIEF-P3-1d5	3 AC 380V -15% ~ +15%	0.75/1.5	2.5/4	3.5	189/124/160
CHIEF-G3-1d5	CHIEF-P3-2d2		1.5/2.2	4/6		
CHIEF-G3-2d2	CHIEF-P3-004		2.2/4	6/9		
CHIEF-G3-004	CHIEF-P3-5d5		4/5.5	9/13	4.5	
CHIEF-G3-5d5	CHIEF-P3-7d5		5.5/7.5	13/17		
CHIEF-G3-7d5	CHIEF-P3-011		7.5/11	17/25	7	
CHIEF-G3-011	CHIEF-P3-015		11/15	25/32		
CHIEF-G3-015	CHIEF-P3-018		15/18.5	32/37		
CHIEF-G3-018	CHIEF-P3-022		18.5/22	37/45	18	
CHIEF-G3-022	CHIEF-P3-030		22/30	45/60		
CHIEF-G3-030	CHIEF-P3-037		30/37	60/75		
CHIEF-G3-037	CHIEF-P3-045		37/45	75/90	50	
CHIEF-G3-045	CHIEF-P3-055		45/55	90/110		
CHIEF-G3-055	CHIEF-P3-075		55/75	110/150		
CHIEF-G3-075	CHIEF-P3-093		75/93	150/176	90	
CHIEF-G3-093	CHIEF-P3-110		93/110	176/210		
CHIEF-G3-110	CHIEF-P3-132		110/132	210/250		
CHIEF-G3-132	CHIEF-P3-160		132/160	250/300	120	
CHIEF-G3-160	CHIEF-P3-185		160/185	300/340		
CHIEF-G3-185	CHIEF-P3-200		185/200	340/380		
CHIEF-G3-200	CHIEF-P3-220		200/220	380/420	180	
CHIEF-G3-220	CHIEF-P3-250		220/250	420/470		
CHIEF-G3-250	CHIEF-P3-280		250/280	470/520		
CHIEF-G3-280	CHIEF-P3-315		280/315	520/600	350	
CHIEF-G3-315	CHIEF-P3-350	315/350	600/640			
CHIEF-G3-350	CHIEF-P3-400	350/400	640/690			
CHIEF-G3-400	CHIEF-P3-450	400/450	690/750	400		
CHIEF-G3-450	CHIEF-P3-500	450/500	750/860			
CHIEF-G3-500	CHIEF-P3-560	500/560	860/950			
CHIEF-G3-560	CHIEF-P3-630	560/630	950/1100	500		
CHIEF-G3-630		630	1100			

Technical Characteristics:

Project	Specification	
Input	Rated input voltage	Three phase 380 ± 15%, 47~ 63 Hz
Output	Maximum output voltage	Maximum output voltage is same with input power
	Output feature	100% continuous output
Basic control function	Over-load capacity	150% rated current 1 minute, 180% rated current 10 seconds
	Control mode	Sensorless vector control, V/f control, Torque control optimization vector PWM
	Input mode	Frequency (speed) input. Moment input. Location input
	Operation mode	Keypad. External terminal (2 line control. Three line control). RS485
	Frequency setting mode	Digital input. Analog input. Multiple speed. PID set. Serial communication RS485 setting, etc
	Frequency control range	0.00-600.00 Hz
	The resolution of the input frequency	Digital: 0.01 Hz simulation: 0.05 Hz
	Acc/ Dec time	0-3600 seconds
	Carrier frequency	0.5 K - 15.0 KHz
	Voltage/frequency characteristic	Rated voltage 20% - 100% adjustable; The fundamental frequency of the 20 Hz ~ 600 Hz adjustable
	Torque boost	Automatic torque boost. Fixed torque boost curve, arbitrary V/f curve optional
	Start torque	0.5 Hz / 150% rated torque
	Speed control ratio	1: 100(no sensor vector)
	Moment control accuracy	Plus or minus 0.5% maximum speed
	Output voltage adjustment	AVR function effectively, keep output voltage stable
	Current automatic limiter	Automatic limit output current, avoid frequent over current trip
	DC brake	Brake frequency: 0.1 ~ maximum frequency braking time 0 ~ 50 seconds brake current: 0 ~ 150% rated
	peripheral port function	Programmable digital input
Programmable analog input		A11:0 ~ 10 V input, A12:0 ~ 10 V or 0 to 20 mA input
Open collector output		1 channel output
Relay output		1 channel output
Analog output		Two ways of output, 0/4 ~ 20 mA and 0 ~ 10 V
Keyboard display	LED display	LED digital tube display frequency converter of relevant information
	LCD display	LCD liquid crystal display converter code information
	Parameter copy	Can upload and download converter code information, realizing fast parameter copy
Protection	Protection function	Short circuit, the flow, overvoltage, undervoltage, lack of phase, overheating, external fault, communication malfunction,PID feedback fault, brake unit fault, the motor self learning problem and so on 25 studies fault protection.
Use condition	Installation site	Less than 1000 meters above sea level, clean, no oil mist, no corrosive gas, no direct sunlight
	Applicable ambient	-10 °C ~ +40°C, 20% ~ 90% RH (no frost)
	Vibrate	Less than 0.5 g
	Storage ways	-25 °C ~ +65°C
	Installation ways	Wall (0.75 KW ~ 132 KW), floor type electric control cabinet (160 ~ 400 KW)
Protection level		IP20
Type of cooling		Forced air cooling (controlled)