













FR600 Series summary

FR600 Series can be customized designed for industry solutions in Metallurgy,

Crane, Petro, Chemical and Mining industries.

Specifically France, Germany, Finland, South Africa and other countries developed industrial grid voltage for medium voltage drives.



Large margin derating design

> 32 bit Cortex-M3 ARM core host CPU, clocked at 144MHz.



1000V voltage electrolytic capacitors (500V grade), 1200V voltage electrolytic capacitors (660V grade)



> Infineon IGBT module 1700V voltage level.



> 1800V voltage rectifier module (500V grade), 2400V voltage rectifier module (660V grade)

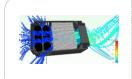


superior environmental adaptability

> Standard products using three anti-paint treatment,

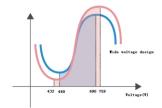


> Duct isolation technology, resistant to moisture, dust, sealed design, easy to deal with harsh industrial environments.



Superior Immunity design

Wide operating voltage range, low voltage by over-modulation technology to ensure load capacity.



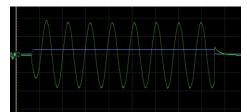
- > On the grid surge (lightning strike), power grid noise, electrostatic immunity, to harsh industrial standards.
- Control power and bus separation; control power transformer isolated isolation separate power supply, control power standard design of the filter circuit.





Excellent performance

- High starting torque
- 180% Rated torque / 0.5Hz(SVC 1)
- 180% Rated torque / 0. 25Hz (SVC 2)
- Reduce the sensitivity from SVC control to motor parameter, to improve the site adaptability

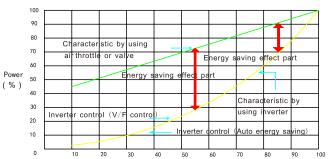


Abundant function

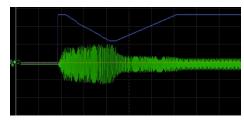
Integrated model with G&P in one

Load torque characteristic		Variable torque characteristic(P model)	Constant torque characteristic (G model)		
Load characteristic		Torque	Torque Speed Speed		
		Fan, pump load type	Conveyor belt, trolley and other constant torque load type		
		Load torque change is proportional to speed (Non need overload capacity)	Fixed Load torque (Overload capacity required)		
Inverter Overload capacity		120% rated current: 60S	150% rated current: 60S		
characteristic	Maximum output power	600Hz	600Hz		

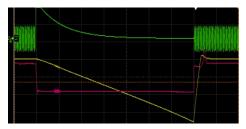
- > Equipped functions most suitable for fan and pump, equipped PID control function
- > To implement temperature, pressure, flow control without extra controllers



- Air flow or water flow Q(%) energy saving effect characteristic
- Different motor characteristic, different effect
- Supports frequency dormant & wakeup and pressure dormant & wakeup, better adaptability for various sites
- ♦ Speed tracing function Inverter starts motor smoothly according to motor's current running direction and speed



Speed tracing output frequency and current waveform



Green color is input voltage Yellow color is output frequency Red color is bus voltage

Oscillation suppression function



Convenient debugging

Powerful background software



♦ Short-cut menu Common parameters setting rapidly to save customer's time to read manual

- Unique upload and download module which is convenient for parameter commissioning Restore factory parameters, backup user parameters
- Design special application macro according to industry demand



Electric Specification

Main Power Voltage	Model No.	Motor Power (kW)	Power apacity kVA)	Input Curentr (A)	Output Current (A)	Dimension (W*H*D) (mm)	
	FR600 - 5T- 4.0 - H	4	7.5	8	7.6		
	FR600 - 5T- 5.5-H	5.5	12	12	11	100*200*105	
	FR600 - 5T- 7.5-H	7.5	15	16	14.5		
	FR600 - 5T- 011-H	11	20	21	20	198*300*195	
	FR600 - 5T- 015-H	15	28	30	28		
	FR600 - 5T- 018-H	18.5	35	37	35		
	FR600 - 5T- 022-H	22	40	42	40	270*545*270	
	FR600 - 5T- 030-H	30	52	55	52	05540004000	
Three Phase 550VAC	FR600 - 5T- 037-H	37	64	68	65		
	FR600 - 5T- 045-H	45	77	82	77	355*620*290	
	FR600 - 5T- 055-H	55	97	103	98		
	FR600 - 5T- 075-H	75	125	130	124		
	FR600 - 5T- 090-H	90	148	157	150	430*825*305	
	FR600 - 5T- 110 - H	110	178	189	180		
	FR600 - 5T- 132-H	132	217	231	220		
-	FR600 - 5T- 160-H	160	257	273	260		
-	FR600 - 5T- 185-H	185	297	315	300		
	FR600 - 5T- 200-H	200	326	346	330	660*1030*369	
	FR600 - 5T- 220-H	220	356	378	360		
	FR600 - 5T- 250-H	250	410	435	414		
	FR600 - 5T- 280-H	280	452	480	458		
	FR600 - 5T- 315-H	315	505	535	510	810*1167*460	
	FR600 - 5T- 355-H	355	565	600	573		
	FR600 - 5T- 400-H	400	632	670	646		





	FR600-6T-018-H	18.5	35	30.0	25		
	FR600 - 6T - 022 - H	22	37	35.0	28	270*545*270	
	FR600-6T-030-H	30	43	40.0	35	210 343 210	
	FR600-6T-037-H	37	51	47.0	45		
	FR600 - 6T-045 -H	45	65	52.0	52		
	FR600 - 6T-055 -H	55	80	67.0	65	357*620*290	
	FR600-6T-075-H	75	93	82.0	86		
	FR600-6T-090-H	90	123	96.0	98		
690VAC	FR600-6T-110-H	110	147	120.0	124		
000 17 10	FR600 - 6T - 132 - H	132	166	145.0	150	430*825*305	
	FR600 - 6T - 160 - H	160	229	175.0	180		
	FR600 - 6T - 185 - H	185	236	190.0	200		
	FR600 - 6T - 200 - H	200	258	210.0	220		
	FR600 - 6T - 220 - H	220	286	235.0	245		
	FR600 - 6T - 250 - H	250	316	255.0	270		
	FR600 - 6T - 280 - H	280	346	290.0	300	660*1030*369	
	FR600 - 6T - 315 - H	315	367	335.0	350		
	FR600 - 6T - 355 - H	355	454	370.0	390	_	
	FR600 - 6T - 400 - H	400	488	415.0	430		
	FR600 - 6T - 450 - H	450	559	460	480		
	FR600 - 6T - 500 - H	500	645	520	540	810*1167*460	
	FR600-6T-560-H	560	660	580	600		
	FR600-6T-630-H	630	812	655	680		

Technical Parameters

Main Power	Input Voltage Uin	Three Phase 690VAC (-30% ,+10%) Three Phase 550VAC (-30% ,+10%)			
	Input Frequency	50/60Hz			
Motor Connections	Output Voltage	0VAC ~ Uin			
	Output Frequency	0Hz ~ 600Hz			
	Frequency Resolution	0.01Hz			
	Overload Capacity	150% 1 min,180% 10s,200% 1s			
Control Characteristic	Control Mode	V/F Control, No PG Vector Control 1, No PG Vector Control 2, With PG Vector Control			
	Carrier Frequency	0.7kHz ~ 16kHz			
	Acce Time	0.1s ~ 6000.0s			
	Dece Time	0.1s ~ 6000.0s			
	Torque Boost	Auto torque boost, manually torque boost 0.1 ~ 30.0%			
	DC Brake	DC Brake Frequency: 0 ~ Max Frequency; Brake Time: 0.0 ~ 10.0s; Brake Action Current Value: 0.0 ~ 150.0%			

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