



Frequency converter VDF710 smart inverter

Yilane Tech® Model Frequency converter VDF710 inverter from China factory.

VDF710 inverter is a targeted single-phase 220VAC and three-phase 380VAC smart frequency converter launched by Yilane based on the market demand of small power, small volume and simple speed regulation. As a smart inverter product with small volume and large capacity, VDF710 has significant advantages such as high

power density, high EMC specification design, high protection performance, etc. It can be widely used in small automatic machinery represented by woodworking, glass edging, food filling, medical centrifuges, automatic production lines, electronic equipment, logistics equipment, ceramic equipment, machine tool spindles, textiles, etc.

Excellent performance and functions

Larger rated current design, larger overload current, shorter acceleration time: the deceleration process automatically adds overexcitation function, and the deceleration time is shorter:

Strong over modulation capability, higher output voltage under the same input voltage; Powerful overload suppression capability ensures that the inverter will not stop due to overload fault at the maximum output;

The powerful frequency swing function can change the evenness and density of the spindle winding in the textile and chemical fiber industry: strong output three-phase short circuit protection. The response of the whole series of output short circuit protection reaches microsecond level.

Easy and simple debugging

Built-in industry professional macro application, support one key to set industry parameters: support external keyboard, support parameter upload and download function; long-life shuttle encoder potentiometer, frequency modulation accuracy 0.01Hz; humanized pressure sleep, direct adjustment by up and down keys Target value:

Up to five groups of user passwords for running timing can be set, and the password can be released when the timing is reached: The external keyboard can be extended to a maximum of 100 meters.

VDF710 Comprehensive technical index

VDF710 Model

Inverter model	Input voltage	Capacity (KVA)	Input current(A)	Output current(A)	Applicable motor(kW)
VDF710S0.7GB	Single phase 220V Range:-15%~20%	1.5	8.2	4.0	0.75
VDF710S1.5GB		3.0	14.2	7.0	1.5
VDF710S2.2GB		4.0	23.0	9.6	2.2
VDF710T0.7GB	Triple phase 380V Range:-15%~20%	1.5	3.4	2.1	0.75
VDF710T1.5GB		3.0	5.0	3.8	1.5
VDF710T2.2GB		4.0	5.8	5.1	2.2
VDF710T4.5GB		5.9	14.6	9.0	4.0
VDF710T5.5GB		8.9	20.5	13.0	5.5
VDF710T7.5GB		11.0	26.0	17.0	7.5
VDF710T11GB		17.0	35.0	25.0	11.0
VDF710T15GB		21.0	38.5	32.0	15.0
VDF710T18.5GB		30.0	46.5	37.0	18.5
VDF710T22GB		40.0	62.0	45.0	22.0
VDF710T30GB		57.0	76.0	60.0	30.0
VDF710T37GB		69.0	92.0	75.0	37.0

Items		Specifications
Input	Rated voltage, frequency	380V/220V;50/60Hz
	Permissible range of operating voltage	Fluctuation:<+ 20%; voltage imbalance rate:<3%; freq fluctuation:<+ 5%
Output	Voltage	0~380V/0~220V
	Freq	0.0~630.0Hz
	Overloading ability	150% rated current 1min; 200% rated current 1s; 220% rated current, instantaneous trip.
Main control performances and featured functions	Control mode	V/F control(simplified magnetic flux control technology)/advanced magnetic flux vector control
	Modulation mode	Flexible PWM technology
	Speed range	1:50
	Startup torque	At 3.0Hz,>150% rated torque(VF control),torque response time <50mS At 1.5Hz,>180% rated torque(Advanced magnetic flux vector control),torque response time <20mS
	Freq accuracy	Digital setting: maxi freq × + 0.02%; analog setting maxi freq× + 0. 1%
	Freq resolution(step)	Digital setting:0.1 Hz, analog setting: maxi freq × 0.05%
	Torque boost	Automatically arise torque/ arise torque by hand 0.1%~30.0%
	V/F curve	21 modes: linear, 2 squared characteristic curve and V/F curve with multiple dots
	Speed up/down curve	Linear curve speed up/down: 2 kinds of speed up/down time, longest time: 1 hour
	DC braking	Startup freq of DC braking:0.00Hz~maxi freq, Braking time:0.0s~30.0s, braking current: 0.0~150.0% rated current of motor
	Auto voltage regulation(AVR)	When system voltage change, able to keep output voltage constant automatically
	Compensation of rotation error	Rational setting of compensation for rotation error, can compensate the change of rotation speed due to load, to achieve higher control accuracy of speed

VDF710 System Connection Diagram

