

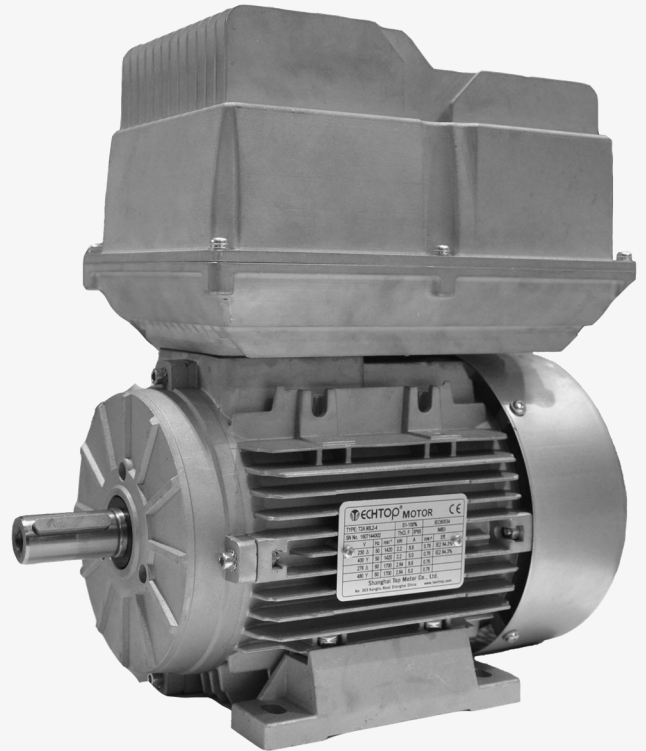
TFC SERIES FREQUENCY CONVERTERS

TFC series low-voltage frequency converters is one of the newest products of TECHTOP, using which you can easily control the motor operation and save energy.

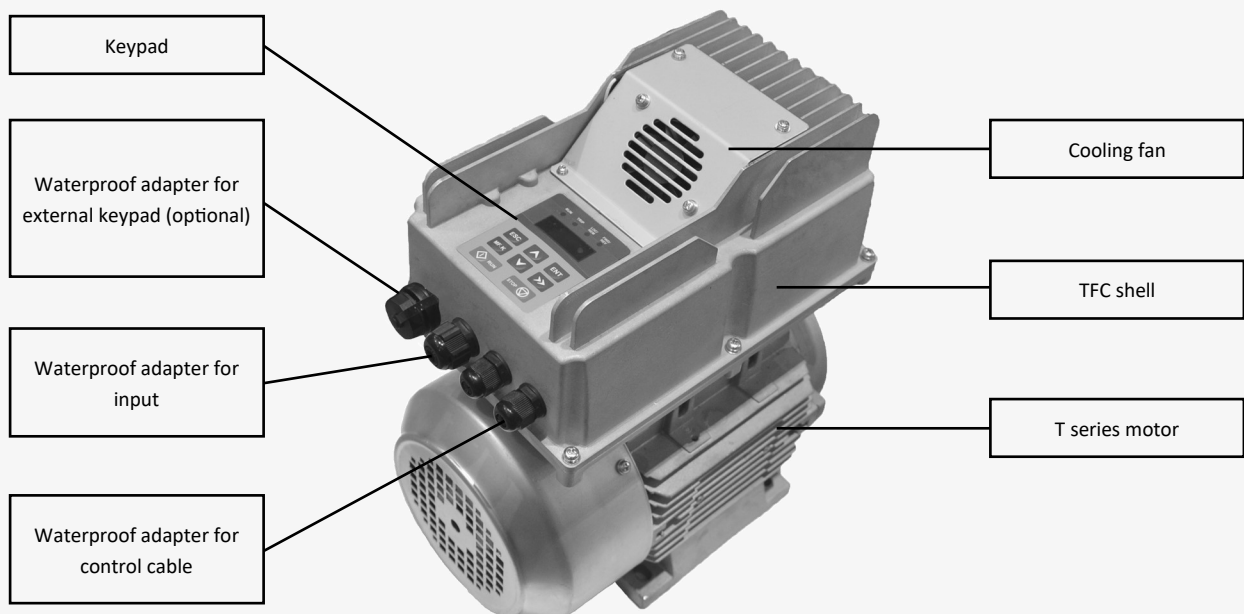
This new series is based on the developer's latest technology and perfectly matches with TECHTOP's T series motors. It provides a power range of 0.25kW ~ 11kW, as well a compact and integrated structure design which is available for both of motor mounting and wall mounting.

Characteristics and advantages:

- ✓ Perfectly matching with TECHTOP's T series three phase motor in both of electrical design and mechanical design.
- ✓ Integrated structure design, compact and light.
- ✓ Multiple installation models, motor mounting and wall mounting.
- ✓ Protection degree IP55, shake-proof level 4g.
- ✓ Integrated cooling fan, better cooling performance.
- ✓ User-friendly wiring connection.
- ✓ Optional external keypad.



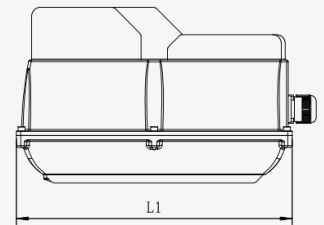
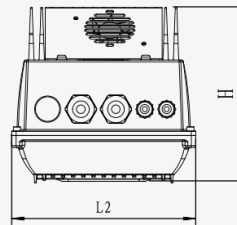
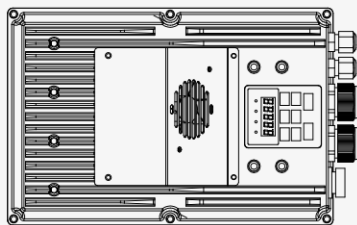
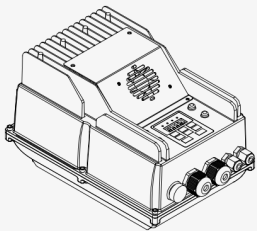
Product appearance



Technical parameters

Main power	Input voltage	Three phase 220VAC, -15% ~ +30%.
		Three phase 380VAC, -15% ~ +30%.
	Input frequency	50/60Hz, ±5%.
Power output	Output voltage	0VAC ~ U _{in}
	Output frequency	0 ~ 600Hz
	Frequency resolution	0.01Hz
	Overload capacity	150% - 1min; 180% - 10s; 200% - 1s.
Control characteristics	Control mode	V/F control; No PG vector control1; No PG vector control 2.
	Carrier frequency	0.7 ~ 16kHz
	Acceleration time	0.1 ~ 6000.0s
	Deceleration time	0.1 ~ 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%.
Environment conditions	Ambient temperature	-10°C (Non-condensation) ~ +40°C: no derating.
	Storage temperature	-40°C ~ +70°C
	Altitude	≤ 1000m: no derating. Derating use 1% per 100m rise when the altitude is above 1000 meters, max. 3000m.
	Protection degree	IP55
EMC characteristics	Anti-interference	Conform to IEC 61800-3 1 st and 2 nd environmental standard.
	Radiation level	C3 level EMC filter standard.
Certificate		CE

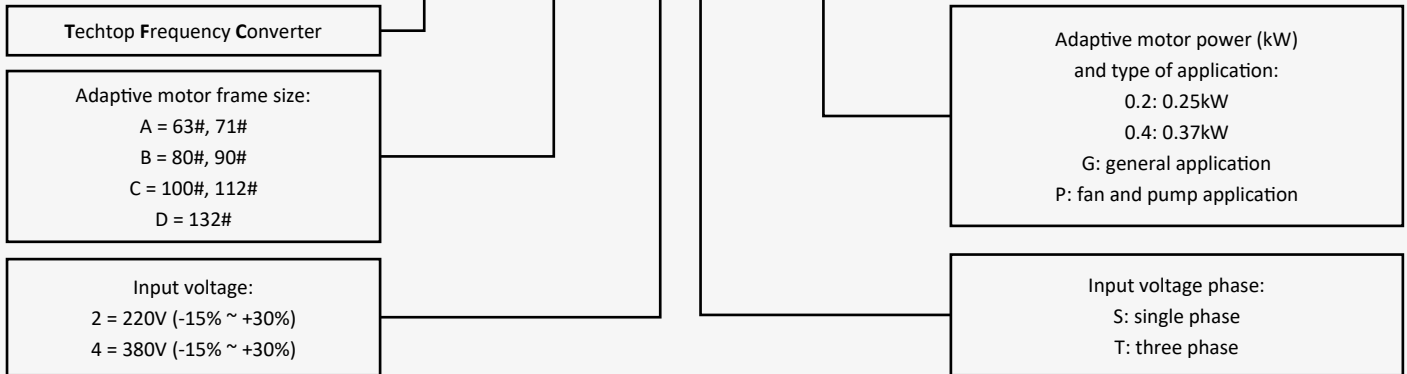
Outline dimensions



Size	Adaptive motor frame size	L1	L2	H
A	63#, 71#	221	154	140
B	80#, 90#	260	166	162
C	100#, 112#	315	210	198
D	132#	380	260	214

Model name description

TFC - A - 4 T - 0.2G/0.4P



Technical data

Model	Power capacity (KVA)	Rated input current (A)	Rated output current (A)	Adaptive motor power	
				(kW)	(HP)
Three phase, 220V (-15% ~ +30%), 50/60Hz.					
TFC-A-2T-0.2	1.2	2.3	2.0	0.25	0.35
TFC-A-2T-0.4	1.5	3.4	2.5	0.37	0.5
TFC-A-2T-0.5	2.2	4.0	3.5	0.55	0.75
TFC-B-2T-0.7	3	5.0	4.2	0.75	1
TFC-B-2T-1.1	4	5.8	5.5	1.1	1.5
TFC-C-2T-1.5	4.5	8	7.0	1.5	2
TFC-C-2T-2.2	6	11	9.5	2.2	3
TFC-C-2T-3.0	8.9	14.6	13	3.0	4
TFC-D-2T-4.0	11	20.5	17	4.0	5
TFC-D-2T-5.5	14	24	21	5.5	7.5
Three phase, 380V (-15% ~ +30%), 50/60Hz.					
TFC-A-4T-0.2G/0.4P	0.7	1.2	1.0	0.25	0.35
TFC-A-4T-0.4G/0.5P	1	1.7	1.5	0.37	0.5
TFC-A-4T-0.5G/0.7P	1.2	2.3	2.0	0.55	0.75
TFC-A-4T-0.7G/1.1P	1.5	3.4	2.5	0.75	1
TFC-A-4T-1.1G/1.5P	2.2	4.0	3.5	1.1	1.5
TFC-B-4T-1.5G/2.2P	3	5.0	4.2	1.5	2
TFC-B-4T-2.2G/3.0P	4	5.8	5.5	2.2	3
TFC-C-4T-3.0G/4.0P	4.5	8	7.0	3.0	4
TFC-C-4T-4.0G/5.5P	6	11	9.5	3.7 (4.0)	5
TFC-C-4T-5.5G/7.5P	8.9	14.6	13	5.5	7.5
TFC-D-4T-7.5G/9.0P	11	20.5	17	7.5	10
TFC-D-4T-9.0G/11P	14	24	21	9.0	12
TFC-D-4T-11G	17	26	25	11	15



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