



**T**2W3 系列發電機電樞繞組為帶有中性點引出綫的星形接法，三相四綫制，額定電壓為 400V，額定頻率為 50Hz，額定轉速為 150rpm，額定功率因數為 0.8（滯后）。

T2W3 系列發電機按照中國最新標準 GB755，并吸取國際上同類產品的優點進行設計、製造，本系列發電機全面符合國際電工委員會推薦標準中的有關規定。

WT-2 型自動電壓調節器結構簡單、性能可靠、維護方便，T2W3 系列發電機性能優良、效率較高，合理的設計和精密的加工降低了電機的振動和噪音。

電機的安裝結構型式是機座上帶底腳、兩個端蓋軸承、單軸伸且在軸伸端具有帶小凸緣止口（或不帶小凸緣止口）的端蓋，即 IMB34（或 IMB3）型結構。採用了這種結構，發電機可以方便、可靠地與各種不同類型的原動機對接。

主發電機轉子是帶有分布繞組的隱極結構，并加裝全阻尼條和阻尼端環。

**S**eries T2W3 alternators are 3-phase alternators with the armature winding star-connected, 3-phase, 4-wire. The rated voltage is 400 volts, the rated frequency is 50HZ, the rated speed is

1500rpm, the rated power factor is 0.8 (lagging).

Series T2W3 alternators are designed and manufactured in accordance with China's newest technical standards GB755', and adopted the advantages of the similar products of other countries of the world. These alternators are completely conformed to the requirements recommended by IEC.

WT-2 Type automatic voltage regulator (A. V. R. ) are characterized by simple structure, reliable and convenient maintenance. The alternator of series T2W3 have excellent operating characteristics and have higher efficiency levels. Due to rational design and precise mechanical processing, vibration and noise have been greatly reduced.

The mounting structure of the alternators T2W3 conforms with that of type IMB34 (or IMB3), that is with two end-shield with bearing housings, feet on fram, single extension and small flange (or non-small flange) on driving-end end shield. With this mounting structure, the alternator is able to connect reliably and easily to the prime mover of different type.

The rotor of the main alternator is a non-salient pole rotor with distributed field winding. Whole damper bars and damper rings are fitted to the rotor.

## Main Technical Data

Table 1

Type	Frame No.	KVA	KW	Current(A)	Speed(rpm)	Eff.(%)	Input P.P	GD <sup>2</sup> .kg-m <sup>2</sup>
T2W3-12	180S	15	12	21.7	1500	85.0	18.9	1.49
T2W3-16	180M	20	16	28.9	1500	86.5	24.8	1.86
T2W3-20	200S	25	20	36.1	1500	87.5	30.6	2.27
T2W3-24	200M	30	24	43.3	1500	88.5	36.4	2.62
T2W3-30	225S	37.5	30	54.1	1500	89.0	45.2	3.61
T2W3-40	225M	50	40	72.2	1500	90.0	59.6	4.36
T2W3-50	225L	62.5	50	90.2	1500	90.5	74.1	4.97
T2W3-64	250M	80	64	115	1500	91.0	94.3	7.90
T2W3-75	250L	93.8	75	135	1500	91.4	110	8.67
T2W3-90	280S	113	90	162	1500	91.8	131	10.6
T2W3-120	280L	150	120	217	1500	92.2	175	13.2
T2W3-150	355S	188	150	271	1500	92.4	218	28.0
T2W3-200	355S	250	200	361	1500	92.6	290	34.9
T2W3-250	355M	313	250	451	1500	92.8	361	41.9

电压整定范围

Voltage Setting Range  $\pm 5\% U_H$

过载能力(1小时)

Over Load (for one hour)  $110\% P_H$

( $U_H$ ,  $I_H$ ,  $P_H$ —Rated Voltage, Rated Current, Rated power)

电压波形正弦畸变率

Voltage Wave Form 5%

稳态电压调整率

Static Voltage Regulation  $\pm 2.5\%$

短时(15秒)过电流能力

Short Time (15 seconds) Over Current 150%

瞬态电压调整率(小于1秒)

Dynamic Voltage Regulation

(less than 1 second)  $-15\% \sim +20\%$



Table 2

型號 Type	機座 號 Frame No.	安裝尺寸 Mounting Dimensions(mm)														外形尺寸 (IMB34)Outside Dimensions (mm)							重量 Weight (kg)		包裝箱外形尺寸 Packing Box Outside Dimensions (mm)				
		H	A	A/2	B	C	D	E	F	G	n-k	M	N	P	n-S	z	T	R	h	h <sub>1</sub>	l	I <sub>1</sub>	I <sub>3</sub>	b		2b <sub>2</sub>	b3	Net	Gross
T2W3-12	180S	180	279	139.5	203	121	42	110	12	37			230 +0.016 -0.013	300	4-M12	45°	4	0±2	480	28	250	770	60	358	370	75	210	240	910×490×670
		-0.5	±1.05	±0.75	±1.05	±3.0	+0.002	±0.43	-0.043	-0.2	4-Φ15	265	-0.013	300	4-M12	45°													
T2W3-16	180M	180	279	139.5	241	121	42	110	12	37			230 +0.016 -0.013	300	4-M12	45°	4	0±2	480	28	288	825	60	358	370	75	240	270	965×490×670
		-0.5	±1.05	±0.75	±1.05	±3.0	+0.002	±0.43	-0.043	-0.2	4-Φ15	265	-0.013	300	4-M12	45°													
T2W3-20	200S	200	318	159	228	133	48	110	14	42.5			250 +0.016 -0.013	350	4-M16	45°	5	0±3	525	28	294	825	80	400	415	75	290	320	970×500×730
		-0.5	±1.05	±0.75	±1.05	±3.0	+0.002	±0.43	-0.043	-0.2	4-Φ19	300	-0.013	350	4-M16	45°													
T2W3-24	200M	200	318	159	267	133	48	110	14	42.5			250 +0.016 -0.013	350	4-M16	45°	5	0±3	525	28	333	845	80	400	415	75	295	320	970×500×730
		-0.5	±1.05	±0.75	±1.05	±3.0	+0.002	±0.43	-0.043	-0.2	4-Φ19	300	-0.013	350	4-M16	45°													
T2W3-30	225S	225	356	178	286	149	60	140	18	53			300	400	4-M16	45°	5	0±3	575	28	352	870	100	446	475	90	360	445	1140×610×750
		-0.5	±1.05	±0.75	±1.05	±4.0	+0.011	±0.5	-0.043	-0.2	4-Φ19	350	±0.016	400	4-M16	45°													
T2W3-40	225M	225	356	178	311	149	60	140	18	53			300	400	4-M16	45°	5	0±3	575	28	379	920	100	446	475	90	415	490	1140×610×750
		-0.5	±1.05	±0.75	±1.05	±4.0	+0.011	±0.5	-0.043	-0.2	4-Φ19	350	±0.016	400	4-M16	45°													
T2W3-50	225L	225	356	178	356	149	60	140	18	53			300	400	4-M16	45°	5	0±3	575	28	424	985	100	446	475	90	460	525	1140×610×750
		-0.5	±1.05	±0.75	±1.05	±4.0	+0.011	±0.5	-0.043	-0.2	4-Φ19	350	±0.016	400	4-M16	45°													
T2W3-64	250M	250	406	203	349	168	70	140	20	62.5			350	450	8-M16	22.5°	5	0±4	645	33	433	1060	95	500	512	90	600	655	1250×670×870
		-0.5	±1.4	±1.0	±1.4	6±4.0	+0.011	±0.5	-0.052	-0.2	4-Φ24	400	±0.018	450	8-M16	22.5°													
T2W3-75	250L	250	406	203	406	168	70	140	20	62.5			350	450	8-M16	22.5°	5	0±4	645	33	490	1090	95	500	512	90	630	710	1250×670×870
		-0.5	±1.4	±1.0	±1.4	±4.0	+0.011	±0.5	-0.052	-0.2	4-Φ24	400	±0.018	450	8-M16	22.5°													
T2W3-90	280S	280	457	228.5	368	190	80	170	22	71			350	450	8-M16	22.5°	5	0±4	710	35	438	1090	135	560	580	100	715	820	1350×730×920
		-1.0	±1.4	±1.0	±1.4	±4.0	+0.011	±0.5	-0.052	-0.2	4-Φ24	400	±0.018	450	8-M16	22.5°													
T2W3-120	280L	280	457	228.5	457	190	80	170	22	71			350	450	8-M16	22.5°	5	0±4	710	35	527	1190	135	560	580	100	840	930	1350×730×920
		-1.0	±1.4	±1.0	±1.4	±4.0	+0.011	±0.5	-0.052	-0.2	4-Φ24	400	±0.018	450	8-M16	22.5°													
T2W3-150	355S	355	610	305	500	254	90	170	25	81			550	660	8-M20	22.5°	6	0±4	910	40	576	1370	125	710	760	100	1280	1500	1550×920×1130
		-1.0	±1.4	±1.0	±1.4	±4.0	+0.013	±0.5	-0.052	-0.2	4-Φ28	660	±0.022	660	8-M20	22.5°													
T2W3-200	355S	355	610	305	500	254	90	170	25	81			550	660	8-M20	22.5°	6	0±4	910	40	576	1370	125	710	760	100	1460	1650	1550×920×1130
		-1.0	±1.4	±1.0	±1.4	±4.0	+0.013	±0.5	-0.052	-0.2	4-Φ28	660	±0.022	660	8-M20	22.5°													
T2W3-250	355M	355	610	305	560	254	90	170	25	81			550	660	8-M20	22.5°	6	0±4	910	40	636	1500	125	710	760	100	1700	2000	1680×920×1130
		-1.0	±1.4	±1.0	±1.4	±4.0	+0.013	±0.5	-0.052	-0.2	4-Φ28	660	±0.022	660	8-M20	22.5°													

注: 對於IMB3 安裝型式, 取消表中的M、N、P、n-s、α、T和R。

Note: For mounting model IMB3, there are not M, N, P, a-s, α, T and

R in drawing and table.