



TFWS 系列三相无刷交流同步发电机

TFWS SERIES THREE-PHASE A.C SYNCHRONOUS BRUSHLESS GENERATOR



www.yilong-motor.com

简介 INTRODUCTION:

TFWS系列三相交流无刷同步发电机是我公司在原TFW系列的基础上,结合国内外先进无刷发电机系列的设计和制造技术而自行开发的新一代发电机。该系列发电机体积小、重量轻、外观精致、可靠性高,电气性能达到国际先进水平。

TFWS系列三相交流无刷同步发电机符合IEC国际电工委员会和ISO8528等相关标准,适用于与柴油机配套组成柴油发电机组或移动电站,使用于陆地、舰船、列车、宾馆等需要工频电源的场合。

TFWS series three-phase brushless synchronous generators, by introducing and developing foreign and domestic advanced technology and design, are newly designed by our company on basis of our primary TFW series. It possesses following features: small-size, light-weight, delicate appearance, reliable operation, the electrical properties of our product can reach up to the international advance level.

TFWS series three-phase brushless synchronous generators are conformity to international IEC, ISO8528 and related standards. It is suitable to match with the diesel engine. It can be used in land, boat, train, hotel and the places needing industry power.

基本参数 MAIN PERFORMANCE INDEX:

- 1.防滴漏结构 (IP22防护等级)
- 2.H级绝缘
- 3.额定电压400V
- 4.三相四线制
- 5.稳态电压调整率 $\leq \pm 1\%$
- 6.瞬态电压调整率 $-15\% \sim +20\%$
- 7.电压波形畸变率THD $\leq 3\%$
- 8.电话谐波系数THF $\leq 2\%$
- 9.电话影响系数TIF ≤ 50
- 10.其他电压范围的发电机要根据用户需要制造
1. Drip-leak-proof structure (IP22 protection class)
2. Insulation class: H
3. Rated voltage: 400V
4. Three phases four wires
5. Adjusting rate of stable voltage $\leq 1\%$
6. Transient state voltage $-15\% \sim +20\%$
7. Wave aberration rate of voltage THD $\leq 3\%$
8. Telephone harmony wave factor of telephone THF $\leq 2\%$
9. Telephone effective factor of telephone TIF ≤ 50
10. Voltage of other range depends on the customer's request

使用环境 ENVIRONMENT CONDITIONS:

在下列环境下,发电机能够额定运行。

- 1.海拔不超过1000米。
- 2.冷却空气温度258~313K(-15℃~40℃)。
- 3.相对湿度不超过90%。

Under the following environment, the generator could running continuously:

1. Altitude: not exceed 1000m.
2. Cooling air temperature: 258-313k(-15℃~40℃).
3. Relative air humidity: not exceed 90%.

特征 FEATURES:

- 1.可靠的自动电压调节器励磁系统和任选的永磁发电机系统,在各种情况下可提供恒定励磁。
- 2.很容易与电网或其他发电机并联。
- 3.经动平衡的转子,带有密封的滚珠轴承,具有单轴承和双轴承两种结构。
- 4.安装简单,维护保养方便;具有极易操作的接线柱、旋转整流器和联轴器螺栓。
- 5.多规格的过渡接套和单轴承盘片式联轴器。
- 6.符合所有主导的陆用标准。
1. Reliable automatic voltage control exciting system, providing invariable excitation on all occasions.
2. Easy to be connected with power network or other generators.
3. Balance rotor with single or two sealed ball bearings. We have two structures of single bearing and double bearing.
4. Convenient installation and easy maintenance, easy access to terminal, rotating rectifier and coupling bolts.
5. Wide range of flange adaptor and single bearing coupling disc.
6. Meet all the main landing standards.

技术数据 SPECIFICATION

型 号 TYPE	额定功率Rated Power(1500rpm 50HZ 400V)							净 重 KG
	连续Continuous/40℃			备用Stand by/40℃		备用Stand by/27℃		
	H级125K			H级150K		H级163K		
	KVA	KW	η (%)	KVA	KW	KVA	KW	
TFWS164B	9.4	8	78.8	11	8.8	12	9.6	90
TFWS164C	12.5	10	80.6	13.8	11	15	12	96
TFWS164D	15	12	81.2	17.5	14	20	16	100
TFWS184E	20	16	84.5	22.5	18	25	20	120
TFWS184F	25	20	86	27.5	22	30	24	150
TFWS184G	30	24	86.3	32.5	26	35	28	160
TFWS184H	37.5	30	86.6	40	32	41.3	33	216
TFWS224B	42.5	34	87	45	36	47.5	38	250
TFWS224C	50	40	88	52.5	42	55	44	270
TFWS224D	60	48	88.6	62.5	50	65	52	290
TFWS224E	72.5	58	90	77.5	62	80	64	320
TFWS224F	85	68	90.2	87.5	70	91.3	73	360
TFWS274B	100	80	90.4	106.3	85	110	88	395
TFWS274C	117.5	94	90.8	127.5	102	131.3	105	420
TFWS274D	140	112	91.5	145	116	150	120	470
TFWS274E	160	128	92.3	170	136	175	140	510
TFWS274F	181.3	145	92.5	187.5	150	193.8	155	560
TFWS274G	200	160	93.3	212.5	170	220	176	610
TFWS314B	250	200	92.4	270	216	275	220	850
TFWS314C	300	240	92.7	320	256	330	264	915
TFWS314D	350	280	93.3	370	296	400	320	960
TFWS314E	394	315	93.5	418.8	335	437.5	350	1123
TFWS354B	450	360	94.1	477.5	382	495	396	1275
TFWS354C	500	400	94.4	515	412	530	424	1330
TFWS354D	600	480	94.6	640	512	665	532	1530
TFWS354E	662.5	530	94.8	700	560	725	580	1690
TFWS404B	750	600	93.3	775	620	790	632	1960
TFWS404C	800	640	93.6	825	660	840	672	1980
TFWS404D	900	720	93.8	937.5	750	957.5	766	2040
TFWS404E	1000	800	94.3	1030	824	1050	840	2210
TFWS404F	1125	900	94.7	1162.5	930	1187.5	950	2430
TFWS404G	1250	1000	95	1287.5	1030	1312.5	1050	2760

技术数据 SPECIFICATION

型号 TYPE	额定功率Rated Power(1800rpm 60HZ 480V)						
	连续Continuous/40℃			备用Stand by/40℃		备用Stand by/27℃	
	H级125K			H级150K		H级163K	
	KVA	KW	$\eta(\%)$	KVA	KW	KVA	KW
TFWS164B	12.5	10	79	15	12	16.3	13
TFWS164C	15.6	12.5	80.3	18.8	15	22.5	18
TFWS164D	18.75	15	81.2	25	20	30	24
TFWS184E	25	20	83.8	31.25	25	37.5	30
TFWS184F	31.25	25	85.5	37.5	30	43.8	35
TFWS184G	37.5	30	86.7	43.8	35	50	40
TFWS184H	47.5	38	85.6	53.8	43	60	48
TFWS224B	52.5	44	87.7	58.1	46.5	62.5	50
TFWS224C	65	52	88.6	68.8	55	71.3	57
TFWS224D	75	60	89.3	78.8	63	80	64
TFWS224E	93.8	75	90.5	98.8	79	102.5	82
TFWS224F	104	83	90.8	110	88	103.8	91
TFWS274B	125	100	91	132.5	106	137.5	110
TFWS274C	146	117	91.2	155	124	158.8	127
TFWS274D	179	143	91.5	187.5	150	193.8	155
TFWS274E	206	165	92.3	212.5	170	218.8	175
TFWS274F	231	185	92.7	246.3	197	252.5	202
TFWS274G	255	204	93.5	275	220	280	224
TFWS314B	315	252	92.7	335	268	345	276
TFWS314C	375	300	93.3	400	320	415	332
TFWS314D	440	352	93.5	460	368	475	380
TFWS314E	487.5	390	93.5	525	420	537.5	430
TFWS354B	594	475	94.2	625	500	644	515
TFWS354C	644	515	94.6	675	540	694	555
TFWS354D	750	600	94.8	800	640	819	655
TFWS354E	812.5	650	95	850	680	900	720
TFWS404B	895	716	93.6	928.8	743	938.8	751
TFWS404C	957.5	766	93.8	992.5	794	1000	800
TFWS404D	1087.5	870	94.5	1125	900	1137.5	910
TFWS404E	1197.5	958	94.8	1236.3	989	1250	1000
TFWS404F	1325	1060	95.1	1350	1080	1387.5	1110
TFWS404G	1448.8	1159	95.5	1497.5	1198	1513.8	1211