

# OUTLINE 3-PHASE INDUCTION MOTOR

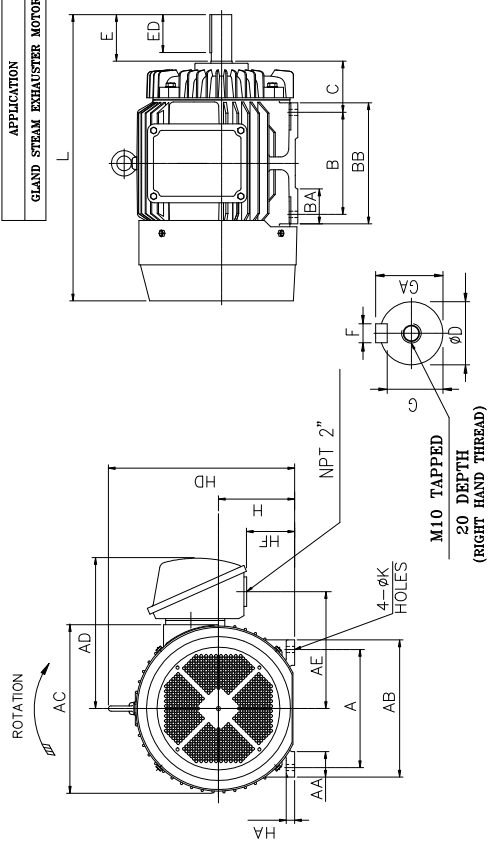
TOTALLY ENCLOSED FAN  
COOLED, SQUIRREL CAGE  
ROTOR(90 SERIES)  
(Indoor)

FILE NO:  
CUSTOMER: TOJ  
PO. NO:  
ORDER NO: 1010123366-10

OUTPUT	POLE	SYN. SPEED	VOLT.	FREQ	TIME RATING	MODEL	FRAME NO.
22kW	2P	3000 r.p.m	380V	50Hz	S1	FPFC	180M

- \* PAINT : ZINC PRIMER 80um, EPOXY INTERMEDIATE 150um, PU FINISH 40um
- \* COLOR : RAL 5021
- \* NOISE LEVEL: 79dBA AT 1M NO LOAD
- \* WITH TERMINAL BLOCK
- \* NDE INSULATED BEARING
- \* WIRE LABEL COLOR : (U=BLACK, V=BROWN, W=GREY),WITH POWER CABLE TERMINALS

APPLICATION  
GLAND STEAM EXHAUSTER MOTOR



A	B	C	H	K	L	AA	AB	AC	AD	AE	BA	BB	HA
279	241	121	180	14.5	676.5	60	324	398	356	280	82.5	286	20

HD	HF	SHAFT END				BEARING NO.		APPROX WEIGHT	
		D	E	F	G	D.E	O.D.E		
440	135	48	110	90	14	42.5	51.5	6310ZZ /HC5C3WT	180kg

- NOTE:1.TOLERANCE OF SHAFT END DIAMETER D:k6(+0.018,+0.002)
- 2.TOLERANCE OF SHAFT CENTER HEIGHT H: 0,-0.5
- 3. F CLASS INSULATION.

CERTIFIED BY :	DATE :
DESIGNED Y.J.Chen	DWG. NO: AS-071213
CHECKED L.J.Lee	3RD ANGLE PROJECTION
APPROVED L.J.Lee	DIMENSION IN mm



## TJB 5&6 Equipment No. (KKS No.) List

Note: "\*\*", shall be "5" for Unit5 or "6" for Unit6.

GSE A	*0MAW11AN010-M01 GLAND STEAM EXHAUSTER A MOTOR
GSE B	*0MAW12AN010-M01 GLAND STEAM EXHAUSTER B MOTOR

## Motor Data Sheet

No.	Description	Unit	Manufacturer's Design Data
1.	<b>Name of Motor</b>	-	GLAND STEAM EXHAUSTER A/B MOTOR
2.	<b>Manufacturer</b>	-	TATUNG
3.	<b>Country of Origin</b>	-	TAIWAN
4.	<b>Type/Machine Code</b>	-	TEFC
5.	<b>Applied Standard (characteristics)</b>	-	IEC 60034
6.	<b>Ratings</b>		
6. (1)	Rated output	kW	22
6. (2)	Service factor	-	1.0
6. (3)	Number of pole	-	2
6. (4)	Rated speed	min <sup>-1</sup>	2950
6. (5)	Rated voltage	V	380
6. (6)	Number of phases	-	3
6. (7)	Rated frequency	Hz	50
6. (8)	Insulation class	-	F
6. (9)	Temperature rise	-	B
6. (10)	Rated duty	-	S1
7.	<b>Service Conditions</b>		
7. (1)	Starting method	-	Direct-On-Line
7. (2)	Direction of rotation (viewed from DE (Drive End))	-	CCW
7. (3)	Reverse rotation (Yes / No)	-	YES
7. (4)	Location (Indoor / Outdoor)	-	INDOOR
7. (5)	Enclosure IP rating		
7. (5) (a)	Motor frame	-	IP44
7. (5) (b)	Terminal boxes	-	IP44
7. (6)	Installation (Horizontal / Vertical)	-	HORIZONTAL
7. (7)	Design ambient temperature	deg C	40
7. (8)	Explosion proof (Yes / No)	-	NO
7. (9)	Noise level (at full-load condition, at 1m from motor frame)	dB(A)	82
7. (10)	Winding resistance	Ω	0.1451 (@20°C)
8.	<b>Characteristics</b>		
8. (1)	Current		
8. (1) (a)	Normal current	A	42.1
8. (1) (b)	No-load current	A	11.4
8. (1) (c)	Starting current	A	294
8. (2)	Torque		
8. (2) (a)	Starting torque	%	220
8. (2) (b)	Maximum torque	%	270
8. (3)	Slip at rated output	%	1.67
8. (4)	Efficiencies		
8. (4) (a)	At 100% load	%	91.3
8. (4) (b)	At 75% load	%	91.0
8. (4) (c)	At 50% load	%	90.0
8. (4) (d)	At 25% load	%	86.0
8. (5)	Power factor		
8. (5) (a)	At rated load	%	87.0
8. (5) (b)	At starting load	%	27.4
8. (6)	GD <sup>2</sup> coupled with driven equipment	kg-m <sup>2</sup>	0.595
8. (7)	Starting time with driven equipment	sec	11

## Motor Data Sheet

No.	Description	Unit	Manufacturer's Design Data
8. (8)	Consecutive numbers of motor starting		
8. (8) (a)	From cold condition (consecutive)	-	3
8. (8) (b)	From hot condition (consecutive)	-	2
8. (8) (c)	Minimum time between 2 starts (running state)	min	-
8. (8) (d)	Minimum time between 2 starts (stop state)	min	-
8. (9)	Allowable locked-rotor time		
8. (9) (a)	At cold condition	sec	12
8. (9) (b)	At hot condition	sec	7
9.	<b>Constructions</b>		
9. (1)	Stator winding connection (Wye / Delta)	-	DELTA
9. (2)	Type of bearing		
	Bearing of DE (Drive End)	-	SEALED BALL
	Bearing of NDE (Non Drive End)	-	SEALED BALL
9. (3)	Lubricants		N/A
9. (3) (a)	Recommended lubricant and brand name	-	-
9. (3) (b)	Pouring method (if applicable)	-	-
9. (3) (c)	Quantity of lubricant for initial filling (if applicable)	g	-
9. (3) (d)	Recommended interval for recharging (if applicable)	hr	-
9. (3) (e)	Recharging quantity (if applicable)	g	-
9. (3) (f)	Location of pouring (indicated in the outline drawing) (if applicable)	-	-
9. (4)	Bearing cooling water requirement (if required)		N/A
9. (4) (a)	Quantity (if required)	m <sup>3</sup> /h	-
9. (4) (b)	Inlet water temperature (if required)	deg C	-
9. (4) (c)	Required cooling water pressure (if required)	kPa	-
9. (4) (d)	Type of cooling water (if required)	-	-
9. (5)	Water to air heat exchanger (if applicable)		N/A
9. (5) (a)	Quantity of cooling water (if applicable)	m <sup>3</sup> /h	-
9. (5) (b)	Inlet water temperature (if applicable)	deg C	-
9. (5) (c)	Required cooling water pressure (if applicable)	kPa	-
9. (5) (d)	Type of cooling water (if applicable)	-	-
9. (6)	Space heater (AC 220V 1 phase) (if applicable)	W	N/A
9. (7)	Weight	kg	180
10.	<b>Related Document Numbers</b>		
10. (1)	Motor outline drawing	-	AS071213
10. (2)	Terminal box drawings		-
10. (a)	For main power	-	N/A
10. (b)	For instruments	-	N/A
10. (c)	For space heater	-	N/A
10. (3)	Current transformers (for MV motors only)		N/A
10. (a)	Characteristics curves (for MV motors only)	-	-
10. (b)	Outline drawing (for MV motors only)	-	-
10. (4)	Efficiency curves	-	N/A
10. (5)	Thermal capability curves		N/A
10. (a)	At cold condition	-	-
10. (b)	At hot condition	-	-
(6)	Starting and speed torque characteristics at 80, 90 and 100 % voltage	-	N/A