OUTLINE
3−PHASE
INDUCTION MOTOR

TOTALLY ENCLOSED FAN COOLED,SQUIRREL CAGE ROTOR (WMP−90)

(INDOOR)

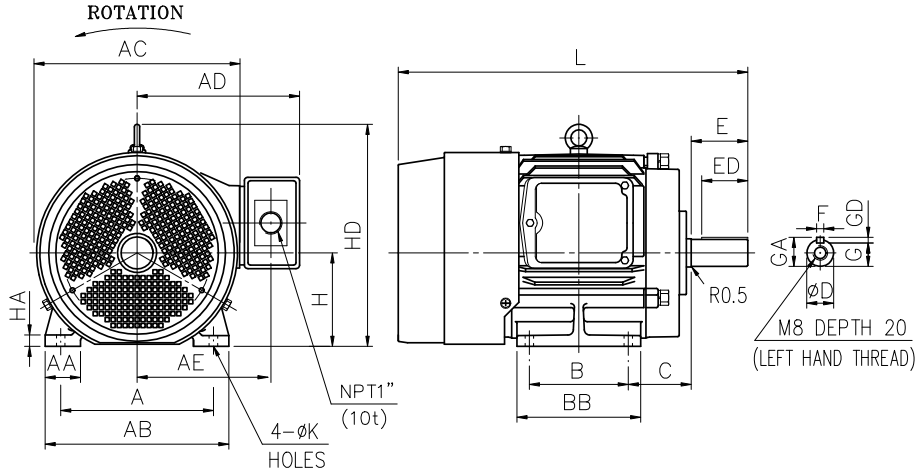
FILE NO:

CUSTOMER: TOJ
PO. NO:
ORDER NO: 1010123247−10

OUTPUT	POLE	SYN. SPEED	VOLT.	FREQ	TIME RATING	MODEL	FRAME NO.
5.5kW	2P	3000 R.P.M	380 V	50 Hz	S1	FPFC	132S

* IE2 EFFICIENCY
* PAINTING: ZINC PRIMER 80um,EPOXY INTERMEDIATE 150um,PU FINISH 40um
* COLOR: RAL 5021
* NOISE LEVEL: 79 dBA AT 1 METER ON NO−LOAD
* SHAFT MATERIAL: SCM440
* WITH TERMINAL BLOCK * SHAFT RUNOUT < 0.01mm
* NDE: INSULATED BEARING * IP44
* WIRE LABEL COLOR: (U=BLACK,V=BROWN,W=GREY) WITH POWER CABLE TERMINALS.

APPLICATION
MAIN OIL TANK VAPOUR EXTRACTOR MOTOR



A	B	C	H	øK	L	AA	AB	AC	AD	AE	BA	BB	HA
216	140	89	132	12	450	50	260	286	236	---	---	175	15

HD	KK	SHAFT END							BEARING NO.		APPROX WEIGHT
		øD	E	ED	F	G	GD	GA	D.E	O.D.E	
316	---	38	80	65	10	33	8	41	6308zz	6208 2RZTN9/HC5C3WT	74kg

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.

TATUNG

CERTIFIED BY : _____ DATE : _____		REV.
DESIGNED	C.K.Lan Apr.25'2018	DWG. NO: AS−071166 04
CHECKED	L.J.Lee Apr.25'2018	3RD ANGLE PROJECTION
APPROVED	L.J.Lee Apr.25'2018	DIMENSIONS IN mm

TJB 5&6 Equipment NO. (KKS NO.) List
Note: "*", shall be "5" for Unit5 or "6" for Unit6.

Application	Description
MOTVE A	*0MAV71AN001−M01 MAIN OIL TANK VAPOUR EXTRACTOR A MOTOR
MOTVE B	*0MAV72AN001−M01 MAIN OIL TANK VAPOUR EXTRACTOR B MOTOR

Motor Data Sheet

No.	Description	Unit	Manufacturer's Design Data
1.	**Name of Motor**	-	MAIN OIL TANK VAPOUR EXTRACTOR A/B MOTOR
2.	**Manufacturer**	-	TATUNG
3.	**Country of Origin**	-	TAIWAN
4.	**Type/Machine Code**	-	TEFC
5.	**Applied Standard (characteristics)**	-	IEC 60034
6.	**Ratings**		
6. (1)	Rated output	kW	5.5
6. (2)	Service factor	-	1.0
6. (3)	Number of pole	-	2
6. (4)	Rated speed	min^{-1}	2900
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.	**Service Conditions**		
7. (1)	Starting method	-	Direct-On-Line
7. (2)	Direction of rotation (viewed from DE (Drive End))	-	CW
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	0.8887 (@20°C)
8.	**Characteristics**		
8. (1)	Current		
8. (1) (a)	Normal current	A	11.2
8. (1) (b)	No-load current	A	3.0
8. (1) (c)	Starting current	A	78
8. (2)	Torque		
8. (2) (a)	Starting torque	%	200
8. (2) (b)	Maximum torque	%	250
8. (3)	Slip at rated output	%	3.33
8. (4)	Efficiencies		
8. (4) (a)	At 100% load	%	87.0
8. (4) (b)	At 75% load	%	87.0
8. (4) (c)	At 50% load	%	86.5
8. (4) (d)	At 25% load	%	83.0
8. (5)	Power factor		
8. (5) (a)	At rated load	%	86.0
8. (5) (b)	At starting load	%	24.7
8. (6)	GD^2 coupled with driven equipment	$kg\text{-}m^2$	0.088
8. (7)	Starting time with driven equipment	sec	7

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.			**Constructions**		
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^3/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^3/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	74
10.			**Related Document Numbers**		
10.	(1)		Motor outline drawing	-	AS071166
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