

Motor Data Sheet

No.	Description	Unit	Manufacturer's Design Data
1.	Name of Motor	-	EHC OIL PUMP 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	55
6. (2)	Service factor	-	1.0
6. (3)	Number of pole	-	6
6. (4)	Rated speed	min ⁻¹	980
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))	-	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	0.066 (@20°C)
8.	Characteristics		
8. (1)	Current		
8. (1) (a)	Normal current	A	109
8. (1) (b)	No-load current	A	34.9
8. (1) (c)	Starting current	A	763
8. (2)	Torque		
8. (2) (a)	Starting torque	%	190
8. (2) (b)	Maximum torque	%	210
8. (3)	Slip at rated output	%	2.0
8. (4)	Efficiencies		
8. (4) (a)	At 100% load	%	93.1
8. (4) (b)	At 75% load	%	93.1
8. (4) (c)	At 50% load	%	92.5
8. (4) (d)	At 25% load	%	91.5
8. (5)	Power factor		
8. (5) (a)	At rated load	%	82.0
8. (5) (b)	At starting load	%	22.3
8. (6)	GD ² coupled with driven equipment	kg-m ²	6.303
8. (7)	Starting time with driven equipment	sec	1

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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)	-	BALL
	Bearing of NDE (Non Drive End)	-	BALL
9. (3)	Lubricants		
9. (3) (a)	Recommended lubricant and brand name	-	SHELL GADUS S2 V100 3
9. (3) (b)	Pouring method (if applicable)	-	GRAVITY
9. (3) (c)	Quantity of lubricant for initial filling (if applicable)	g	DE300/NDE100
9. (3) (d)	Recommended interval for recharging (if applicable)	hr	3120
9. (3) (e)	Recharging quantity (if applicable)	g	DE50/NDE30
9. (3) (f)	Location of pouring (indicated in the outline drawing) (if applicable)	-	TOP
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	100
9. (7)	Weight	kg	540
10.	Related Document Numbers		
10. (1)	Motor outline drawing	-	AS071187
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