SECTION 11

Motor Information for Breakpoint Chlorination Sump Mixer

00GNB56AM101

Motor Data sheets

1. Name of motor	-	BREAKPOINT CHLORINATION SUMP MIXER MOTOR
2. Manufacturer	-	TECO
3. Country of origin	-	MALAYSIA
4. Type/machine code	-	AEUB
5. Applied standard (characteristics)	-	IEC 60034-1
6. Ratings		
(1) Rated output	kW	1.5
(2) Service factor	-	1
(3) Number of pole	-	4
(4) Rated speed	min^{-1}	1500
(5) Rated voltage	V	380
(6) Number of phases	-	3
(7) Rated frequency	Hz	50
(8) Insulation class	-	CLASS F
(9) Temperature rise	-	CLASS B/ 80ºC
(10) Rated duty	-	S1
7. Service Conditions		
(1) Starting method	-	DOL
(2) Direction of rotation (viewed from DE)	-	CW
(3) Reverse rotation (Yes / No)	-	NO
(4) Location (Indoor / Outdoor)	-	OUTDOOR
(5) Enclosure IP rating		
(a) Motor frame	-	IP55
(b) Terminal boxes	-	IP55
(6) Installation (Horizontal / Vertical)	-	VERTICAL
(7) Design ambient temperature	ºC	-14~40
(8) Explosion proof (Required / Not required)	-	NO
(9) Noise level (at full-load condition)	dB (A)	46
8. Characteristics		
(1) Current		
(a) Normal current	A	3.59

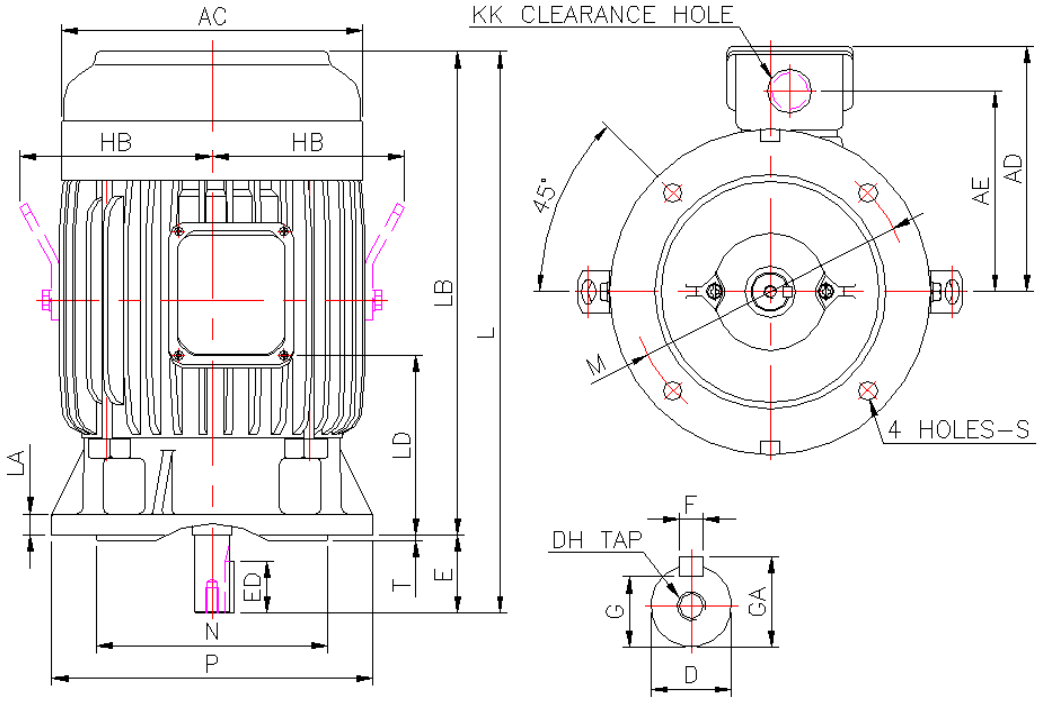
(b) No-load current	A	2.2
(c) Starting current	A	<650% rated current
(2) Torque		
(a) Starting torque	%	320
(b) Maximum torque	%	340
(3) Slip at rated output		
(4) Efficiencies		
(a) At 100% load	%	82.0
(b) At 75% load	%	83.0
(c) At 50% load	%	82.5
(d) At 25% load	%	
(5) Power factor		
(a) At rated load	%	77.5
(b) At starting load	%	64.0
(6) GD2 coupled with driven equipment	kg-m²	0.023
(7) Starting time with driven equipment	s	
(8) Consecutive number of starts		
(a) From cold condition per hour	-	3
(b) From hot condition per hour	-	2
(c) Minimum time between 2 starts (running state)	min	
(d) Minimum time between 2 starts (stop state)	min	
(9) Allowable locked-rotor time		
(a) At cold condition	s	
(b) At hot condition	s	
9. Constructions		
(1) Stator winding connection (Wye / Delta)	-	DELTA
(2) Type of bearing (DE / NDE)	-	6205ZZ/62045ZZ
(3) Lubricants		
(a) Recommended lubricant and brand name	-	LI-BASE GREASE MULTEMP SRL
(b) Pouring method	-	
(c) Quantity of lubricant for initial filling	-	
(d) Recommended interval for recharging	-	20,000 OPERATING HOURS
(e) Recharging quantity	-	
(f) Location of pouring (indicated in the outline drawing)	-	
(4) Bearing cooling water requirement (if required)		NOT REQUIRED
(a) Quantity	m³/h	
(b) Inlet water temperature	°C	
(c) Required cooling water pressure	kPa	
(d) Type of cooling water	-	

(5) Water to air heat exchanger (if applied)		NOT APPLIED
(a) Quantity of cooling water	m^3/h	
(b) Inlet water temperature	°C	
(c) Required cooling water pressure	kPa	
(d) Type of cooling water	-	
(6) Space heater (AC 220V 1 phase)	W	NOT APPLIICABLE
(7) Weight	kg	27
10. Attached document numbers		
(1) Motor outline drawing	-	SEE PAGE 72
(2) Terminal box drawings		
(a) For main power	-	
(b) For instruments	-	
(c) For space heater	-	
(3) Current transformers (for MV motors only)		
(a) Characteristics curves	-	
(b) Outline drawing	-	
(4) Efficiency curves	-	
(5) Thermal capability curves		
(a) At cold condition	-	
(b) At hot condition	-	
(6) Starting and speed torque characteristics at 80%, 90% and 100% voltage	-	

TECO	OUTLINE DIMENSIONS	
DATE 6/20/2017	3-PHASE INDUCTION MOTOR	

MODEL	OUTPUT HP	POLE	TIME RATING	VOLTAGE V	Hz	SYN. SPEED R.P.M.
AEUB	2	4	Continuous Rating	380	50	1500

TOTALLY ENCLOSED FAN-COOLED VERTICAL TYPE. SQUIRREL-CAGE ROTOR



DIMENSIONS IN MM

FRAME NO.	AC	AD	AE	D	DH	E	ED	EE	F	G
90L	200	170	135	24j6	M8×16	50	32	---	8	20

GA	HB	KK	L	LA	LB	LD	LR	M	N	P	S
27	---	20	371.5	12	321.5	113	---	165	130	200	12

T	D. E. BEARING	N. D. E. BEARING	APPROX. WEIGHT KGS	SOUND PRESSURE LEVEL dBA/1M
3.5	6205ZZ	6205ZZ	27	46

NOTE: 1. F Class Insulation, S.F.1.0
2. Direct Coupling, Belt Drive

10.1 MOTOR OUTLINE DRAWING

PRELIMINARY
DATE: 6/20/2017

APPD.	tlm	6/20/2017	TECO Electric & Machinery Co., Ltd.	DWG NO.
CHKD.	tlm	6/20/2017		
DWN.	tlm	6/20/2017		