

SECTION 16

Motor Information for Stripper Fan A/B

00GNB46AN101

00GNB47AN101



BOUSTEAD SALCON WATER SOLUTIONS PTE LTD

Motor Data sheets

1. Name of motor	-	STRIPPER FAN MOTORS
2. Manufacturer	-	SIEMENS
3. Country of origin	-	EUROPE
4. Type/machine code	-	SQUIRREL CAGE INDUCTION
5. Applied standard (characteristics)	-	IEC 60034-1
6. Ratings		
(1) Rated output	kW	22
(2) Service factor	-	1
(3) Number of pole	-	2
(4) Rated speed	min ⁻¹	2955
(5) Rated voltage	V	380
(6) Number of phases	-	3
(7) Rated frequency	Hz	50
(8) Insulation class	-	F
(9) Temperature rise	-	B
(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)	-	HORIZONTAL
(7) Design ambient temperature	°C	-20 to 40
(8) Explosion proof (Required / Not required)	-	NOT REQUIRED
(9) Noise level (at full-load condition)	dB (A)	70
8. Characteristics		
(1) Current		
(a) Normal current	A	42.6
(b) No-load current	A	
(c) Starting current	A	<650% rated current

(2) Torque		
(a) Starting torque	%	310
(b) Maximum torque	%	370
(3) Slip at rated output		0.037
(4) Efficiencies		
(a) At 100% load	%	91.3
(b) At 75% load	%	91.8
(c) At 50% load	%	91.4
(d) At 25% load	%	-
(5) Power factor		
(a) At rated load	%	86
(b) At starting load	%	89
(6) GD2 coupled with driven equipment	kg-m ²	0.068
(7) Starting time with driven equipment	s	< 5
(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)	-	6209 Z C3 / 6209 Z C3
(3) Lubricants		
(a) Recommended lubricant and brand name	-	ESSO UNIREX N3
(b) Pouring method	-	GREASE GUN
(c) Quantity of lubricant for initial filling	-	40g (DE) / 40g (NDE)
(d) Recommended interval for recharging	-	8000 HOURS
(e) Recharging quantity	-	10g (DE) / 10g (NDE)
(f) Location of pouring (indicated in the outline drawing)	-	GREASE NIPPLE
(4) Bearing cooling water requirement (if required)		NOT REQUIRED
(a) Quantity	m ³ /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)	m ³ /h	NOT APPLIED
(a) Quantity of cooling water	°C	-
(b) Inlet water temperature	kPa	-
(c) Required cooling water pressure	-	-
(d) Type of cooling water	-	-
(6) Space heater (AC 220V 1 phase)	W	NOT APPLICABLE
(7) Weight	kg	126
10. Attached document numbers		
(1) Motor outline drawing	-	SEE PAGE 97
(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	-	

