

```
5241-CB14-7121-CWP-1
  UNIT
                                     Circulating water pump - 1
  IDENTIFICATION
                                     125/5
  C.T. RATIO
                                     1905/68
  P.T. RATIO
  MOTOR NAME PLATE
  SERIAL NO .:
                                     SCCWPM00005
  RATING
                                     650 hp
   FULL LOAD CURRENT
                                     114
                                     365 rpm
   SPEED
   CONNECTION
   INSULATION CLASS
                                     В
  RATED VOLTAGE
                                     3.3 kV
   DUTY
   ENCLOSURE
   NO OF ROTOR BARS
   NO. OF STATOR SLOTS
                                     8
   POLE
                                             0.362
  POWER FACTOR
  CURRENT VARIATIONS
   PHASE
                       R
                                     82.0
                                              Α
                       Υ
                                     83.8
                                              Α
                       В
                                     81.8
   CONCLUSION
                    The Current variations are negligible
3 VOLTAGE VARIATIONS
   PHASE
                                     3286
                                              ٧
                       R
                                     3292
                       В
                                     3288
                                              ٧
   CONCLUSION
                    The Voltage variations are negligible
  SPEED
                     371 RPM
  ROTOR BARS
                                              Magnitude
                    Line Frequency,
                                        48.83
                    Hz
                                                  0.49
                                        0.01
                    Slip
                    Slip Frequency,
                                        0.52
                                              Hz
                    Hz
                    Fault
                    frequency,HZ
                                        47.79 Hz
                                                         -46.53
                                        49.87 Hz
                                                         -44.91
                    The difference in magnitude is more than 45dB, hence no Rotor fault
   CONCLUSION
                    exists
6 LOAD ON MOTOR
                                         170
                    Input power, Kw
                    % Loading
```



CONCLUSION

No. of rotor bars data is not given. However no eccentricity pattern $% \left(1\right) =\left(1\right) \left(1\right$

was observed.

8 HARMONIC DISTORTION

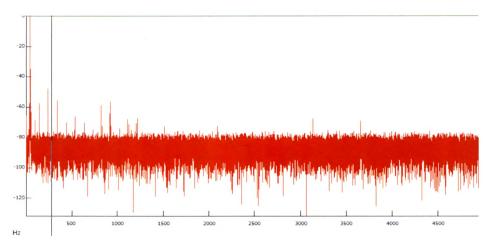
THD, %

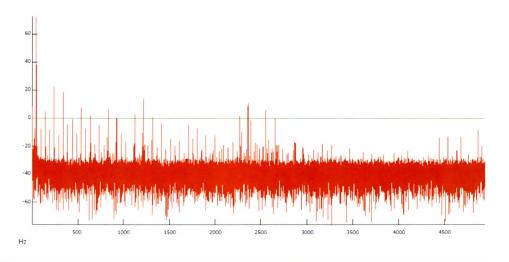
0.30

9 MISALIGNMENT

No abnormality has been detected

Current





UNIT 2 IDENTIFICATION Primary coolent pump - 7 C.T. RATIO 200/5 P.T. RATIO 1905/68 OPERATION RATING MOTOR NAME PLATE SERIAL NO.: S-204752-4 RATING 1170 hp FULL LOAD CURRENT 177 SPEED 2965 SPEED CONSECTION INSULATION CLASS F RATED VOLTAGE 3.3 kV DUTY ENCLOSURE NO OF ROTOR BARS 51 NO. OF STATOR SLOTS 60 POLE 2 1 POWER FACTOR 0.222 2 CURRENT VARIATIONS PHASE R 143.7 A Y 144.4 A B 138.6 A CONCLUSION The Current variations are negligible 3 VOLTAGE VARIATIONS PHASE R 3200 V Y 3195 V CONCLUSION The Voltage variations are negligible 4 SPEED 2972 RPM 5 ROTOR BARS Magnitude Line Frequency, Hz 49.29 5.763 Silip 0.01 Silip Frequency, Hz 148.37 Hz -39.75 SOLUTION The difference in magnitude is more than 45dB, hence no Rotor fault exists		5241-CB18-3311-	PCP-7				
C.T. RATIO		UNIT		2			
P.T. RATIO		IDENTIFICATION			oolent pump	- 7	
OPERATION RATING MOTOR NAME PLATE SERIAL NO.: S-204752-4 RATING 1170 hp FULL LOAD CURRENT 177 2965 SPEED		C.T. RATIO		200/5			
RATING MOTOR NAME PLATE SERIAL NO.: S-204752-4 RATING 1170 hp FULL LOAD CURRENT 177 2965 SPEED rpm CONNECTION INSULATION CLASS F RATED VOLTAGE 3.3 kV DUTY ENCLOSURE NO OF ROTOR BARS 51 NO. OF STATOR SLOTS 60 POLE 2 1 POWER FACTOR 0.222 2 CURRENT VARIATIONS PHASE R 143.7 A Y 144.4 A B 138.6 A CONCLUSION The Current variations are negligible 3 VOLTAGE VARIATIONS PHASE R 3200 V Y 3195 V B 3185 V CONCLUSION The Voltage variations are negligible 4 SPEED 2972 RPM 5 ROTOR BARS Line Frequency, Hz 49.29 5.763 Slip 0.01 Slip Frequency, Hz Fault frequency,HZ 48.37 Hz -39.75 Feault frequency,HZ 48.37 Hz -39.75 The difference in magnitude is more than 45dB, hence no Rotor fault exists		P.T. RATIO		1905/68			
SERIAL NO: S-204752-4 RATING RATING FULL LOAD CURRENT 177 2965 SPEED rpm CONNECTION INSULATION CLASS RATED VOLTAGE 3.3 kV DUTY ENCLOSURE NO OF ROTOR BARS 51 NO. OF STATOR SLOTS POLE R 143.7 A Y 144.4 A B 138.6 A CONCLUSION The Current variations are negligible 3 VOLTAGE VARIATIONS PHASE R 3200 V Y 3195 V B 3185 V CONCLUSION The Voltage variations are negligible 4 SPEED 2972 RPM 5 ROTOR BARS SIIP 0.01 SIIP Frequency, Hz 49.29 5.763 SIIP 0.01 SIIP Frequency, Hz 148.37 Hz -39.75 Fault frequency, Hz 48.37 Hz -39.75 The difference in magnitude is more than 45dB, hence no Rotor fault exists		OPERATION					
SERIAL NO.: RATING		RATING					
RATING		MOTOR NAME P	LATE				
FULL LOAD CURRENT		SERIAL NO.:		S-204752-	-4		
SPEED		RATING		1170 hp			
SPEED		FULL LOAD CUR	RENT	•			
CONNECTION INSULATION CLASS F RATED VOLTAGE 3.3 kV DUTY ENCLOSURE NO OF ROTOR BARS 51 NO. OF STATOR SLOTS 60 POLE 2 1 POWER FACTOR 0.222 2 CURRENT VARIATIONS PHASE R 143.7 A Y 144.4 A B 138.6 A CONCLUSION The Current variations are negligible 3 VOLTAGE VARIATIONS PHASE R 3200 V Y 3195 V B 3185 V CONCLUSION The Voltage variations are negligible 4 SPEED 2972 RPM 5 ROTOR BARS Magnitude Line Frequency, Hz 49.29 5.763 Slip 0.01 Slip Frequency, Hz 48.37 Hz -39.75 50.21 Hz -42.87 The difference in magnitude is more than 45dB, hence no Rotor fault exists				2965			
INSULATION CLASS		SPEED		rpm			
RATED VOLTAGE DUTY ENCLOSURE NO OF ROTOR BARS 51 NO. OF STATOR SLOTS 60 POLE 2 1 POWER FACTOR 0.222 2 CURRENT VARIATIONS PHASE R 143.7 A Y 144.4 A B 138.6 A CONCLUSION The Current variations are negligible 3 VOLTAGE VARIATIONS PHASE R 3200 V Y 3195 V B 3185 V CONCLUSION The Voltage variations are negligible 4 SPEED 2972 RPM 5 ROTOR BARS Magnitude Line Frequency, Hz 49.29 5.763 Slip 0.01 Slip Frequency, Hz 0.46 Hz Fault frequency,HZ 48.37 Hz -39.75 50.21 Hz 42.87 The difference in magnitude is more than 45dB, hence no Rotor fault exists		CONNECTION					
DUTY		INSULATION CLA	\SS	F			
ENCLOSURE NO OF ROTOR BARS NO. OF STATOR SLOTS FOLE 1 POWER FACTOR 0.222 2 CURRENT VARIATIONS PHASE R 143.7 A Y 144.4 A B 138.6 A CONCLUSION The Current variations are negligible 3 VOLTAGE VARIATIONS PHASE R 3200 V Y 3195 V B 3185 V CONCLUSION The Voltage variations are negligible 4 SPEED 2972 RPM 5 ROTOR BARS Line Frequency, Hz 49.29 5.763 Slip 0.01 Slip Frequency, Hz 10.46 Hz Fault Frequency, HZ 48.37 Hz 50.21 Hz 42.87 The difference in magnitude is more than 45dB, hence no Rotor fault exists		RATED VOLTAGE	E	3.3 kV			
NO OF ROTOR BARS 51		DUTY					
NO. OF STATOR SLOTS 60		ENCLOSURE	*	~~~			
NO. OF STATOR SLOTS 60		NO OF ROTOR B	ARS	51			
POLE 2 1 POWER FACTOR 0.222 2 CURRENT VARIATIONS PHASE R 143.7 A Y 144.4 A B 138.6 A CONCLUSION The Current variations are negligible 3 VOLTAGE VARIATIONS PHASE R 3200 V Y 3195 V B 3185 V CONCLUSION The Voltage variations are negligible 4 SPEED 2972 RPM 5 ROTOR BARS Line Frequency, Hz 49.29 5.763 Slip 0.01 Slip Frequency, Hz 0.46 Hz Fault frequency, HZ 48.37 Hz -39.75 50.21 Hz -42.87 The difference in magnitude is more than 45dB, hence no Rotor fault exists				60			
1 POWER FACTOR 0.222 2 CURRENT VARIATIONS PHASE R 143.7 A Y 144.4 A B 138.6 A CONCLUSION The Current variations are negligible 3 VOLTAGE VARIATIONS PHASE R 3200 V Y 3195 V B 3185 V CONCLUSION The Voltage variations are negligible 4 SPEED 2972 RPM 5 ROTOR BARS Line Frequency, Hz 49.29 5.763 Slip 0.01 Slip Frequency, Hz 49.29 5.763 Slip 0.01 Slip Frequency, Hz 0.46 Hz Fault frequency,HZ 48.37 Hz -39.75 50.21 Hz -42.87 The difference in magnitude is more than 45dB, hence no Rotor fault exists							
CURRENT VARIATIONS							
PHASE	1	POWER FACTOR	₹	0.222			
PHASE							
R 143.7 A Y 144.4 A B 138.6 A CONCLUSION The Current variations are negligible 3 VOLTAGE VARIATIONS PHASE R 3200 V Y 3195 V B 3185 V CONCLUSION The Voltage variations are negligible 4 SPEED 2972 RPM 5 ROTOR BARS Line Frequency, Hz 49.29 5.763 Slip 0.01 Slip Frequency, Hz 0.46 Hz Fault frequency, HZ 48.37 Hz -39.75 50.21 Hz -42.87 The difference in magnitude is more than 45dB, hence no Rotor fault exists	2						
Y 144.4 A B 138.6 A CONCLUSION The Current variations are negligible 3 VOLTAGE VARIATIONS PHASE R 3200 V Y 3195 V B 3185 V CONCLUSION The Voltage variations are negligible 4 SPEED 2972 RPM 5 ROTOR BARS ROTOR BARS Line Frequency, Hz 49.29 5.763 Slip 0.01 Slip Frequency, Hz 0.46 Hz Fault frequency,HZ 48.37 Hz -39.75 50.21 Hz -42.87 The difference in magnitude is more than 45dB, hence no Rotor fault exists		PHASE					
B			R	143.7	Α		
CONCLUSION The Current variations are negligible 3 VOLTAGE VARIATIONS PHASE R 3200 V Y 3195 V B 3185 V CONCLUSION The Voltage variations are negligible 4 SPEED 2972 RPM 5 ROTOR BARS Line Frequency, Hz 49.29 5.763 Slip 0.01 Slip Frequency, Hz 0.46 Hz Fault frequency, HZ 48.37 Hz -39.75 The difference in magnitude is more than 45dB, hence no Rotor fault exists			Y	144.4	Α		
3 VOLTAGE VARIATIONS PHASE R 3200 V Y 3195 V B 3185 V CONCLUSION The Voltage variations are negligible 4 SPEED 2972 RPM 5 ROTOR BARS ROTOR BARS Line Frequency, Hz 49.29 5.763 Slip 0.01 Slip Frequency, Hz 0.46 Hz Fault frequency,HZ 48.37 Hz -39.75 50.21 Hz -42.87 The difference in magnitude is more than 45dB, hence no Rotor fault exists							
PHASE		CONCLUSION	The Current	variations are ne	gligible		
PHASE	3	VOLTAGE VARIA	TIONS				
R 3200 V Y 3195 V B 3185 V	9		110140				
Y 3195 V B 3185 V CONCLUSION The Voltage variations are negligible		THACL	D	3200	V		
CONCLUSION The Voltage variations are negligible 4 SPEED 2972 RPM 5 ROTOR BARS ROTOR BARS Line Frequency, Hz 49.29 5.763 Slip 0.01 Slip Frequency, Hz 0.46 Hz Fault frequency,HZ 48.37 Hz -39.75 50.21 Hz -42.87 The difference in magnitude is more than 45dB, hence no Rotor fault exists					·=		
CONCLUSION The Voltage variations are negligible 2972 RPM 5 ROTOR BARS ROTOR BARS Line Frequency, Hz 49.29 5.763 Slip 0.01 Slip Frequency, Hz 0.46 Hz Fault frequency,HZ 48.37 Hz -39.75 50.21 Hz -42.87 The difference in magnitude is more than 45dB, hence no Rotor fault exists							
4 SPEED 2972 RPM 5 ROTOR BARS Line Frequency, Hz		CONCLUSION			-		
5 ROTOR BARS Line Frequency, Hz 49.29 5.763 Slip 0.01 Slip Frequency, Hz 0.46 Hz Fault frequency,HZ 48.37 Hz -39.75 50.21 Hz -42.87 The difference in magnitude is more than 45dB, hence no Rotor fault exists		CONCLUSION	The voltage	variations are ne	giigibie		
Line Frequency, Hz 49.29 5.763 Slip 0.01 Slip Frequency, Hz 0.46 Hz Fault frequency,HZ 48.37 Hz -39.75 50.21 Hz -42.87 The difference in magnitude is more than 45dB, hence no Rotor fault exists	4	SPEED	2972 RF	PM			
Line Frequency, Hz 49.29 5.763 Slip 0.01 Slip Frequency, Hz 0.46 Hz Fault frequency,HZ 48.37 Hz -39.75 50.21 Hz -42.87 The difference in magnitude is more than 45dB, hence no Rotor fault exists							
Hz 49.29 5.763 Slip 0.01 Slip Frequency, Hz 0.46 Hz Fault frequency,HZ 48.37 Hz -39.75 50.21 Hz -42.87 The difference in magnitude is more than 45dB, hence no Rotor fault exists	5	ROTOR BARS			Magnitude)	
Slip 0.01 Slip Frequency, Hz 0.46 Hz Fault frequency,HZ 48.37 Hz -39.75 50.21 Hz -42.87 The difference in magnitude is more than 45dB, hence no Rotor fault exists			Line Frequer	ncy,			
Slip Frequency, Hz 0.46 Hz Fault frequency,HZ 48.37 Hz -39.75 50.21 Hz -42.87 The difference in magnitude is more than 45dB, hence no Rotor fault exists			Hz	49.29	5.763		
Hz 0.46 Hz Fault frequency,HZ 48.37 Hz -39.75 50.21 Hz -42.87 The difference in magnitude is more than 45dB, hence no Rotor fault CONCLUSION exists							
Fault frequency,HZ 48.37 Hz -39.75 50.21 Hz -42.87 The difference in magnitude is more than 45dB, hence no Rotor fault CONCLUSION exists							
frequency,HZ 48.37 Hz -39.75 50.21 Hz -42.87 The difference in magnitude is more than 45dB, hence no Rotor fault CONCLUSION exists				0.46	HZ		
50.21 Hz -42.87 The difference in magnitude is more than 45dB, hence no Rotor fault CONCLUSION exists				7 40.07		20.75	
The difference in magnitude is more than 45dB, hence no Rotor fault CONCLUSION exists			rrequency,H				
CONCLUSION exists			The different				o Rotor fault
		CONCLUSION		oo ni magnitude i	a more uidii	TOUD, HOUSE II	O NOIOI IAUR
6 LOAD ON MOTOR .			5.11010				
6 LOAD ON MOTOR				•			
	6	LOAD ON MOTO	R	-			

175

Input power, Kw

% Loading

7 AIR GAP ECCENTRICITY

No eccentricity pattern was

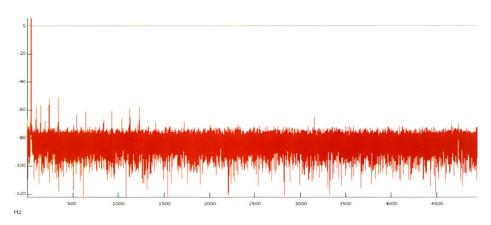
CONCLUSION observed.

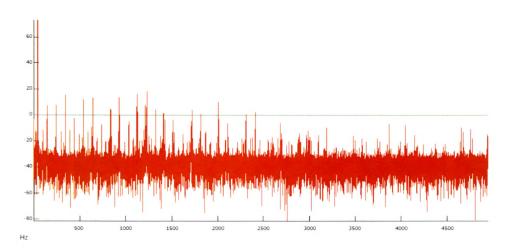
8 HARMONIC DISTORTION

THD, % 0.30

9 MISALIGNMENT No abnormality has been detected

Current





	5241-CB12-4321-	BFP-1			
	UNIT		2		
	IDENTIFICATION		Boiler feed	l pump-1	
	C.T. RATIO		400/5		
	P.T. RATIO		1905/68		
	OPERATION				
	RATING				
	MOTOR NAME P	LATE			
	SERIAL NO.:		1- 155101		
	RATING		2500 hp		
	FULL LOAD CUR	PENT	375		
	TOLL LOND OOM	1 (10) (1)	2960		
	SPEED		rpm		•
	CONNECTION				
	INSULATION CLA	NSS	В		
	RATED VOLTAGE	=	3.3 kV		
	DUTY		ANIQUA.ANI		
	ENCLOSURE				
	NO OF ROTOR B				
	NO. OF STATOR	SLOTS	60		
	POLE		2		
1	POWER FACTOR	₹	0.227		
		•			
2	CURRENT VARIA	TIONS			
	PHASE				
		R	308.6	Α	
		Y	312.3	Α	
	001011101011	В	303.8	Α	
	CONCLUSION	The Current varia	uons are ne	gligible	
3	VOLTAGE VARIA	TIONS			
_	PHASE				•
	•	R	3291	٧	
		Υ	3290	٧	
		В	3277	V	
	CONCLUSION	The Voltage varia	tions are ne	gligible	
	ODEED	0070 0014			
4	SPEED	2978 RPM			
5	ROTOR BARS			Magnitude	
v	NO TON BAILO	Line Frequency,		Magnitude	•
		Hz	48.98	12.975	
		Slip	0.01		
		Slip Frequency,			
		Hz Fault	0.36	Hz	
		frequency,HZ	48.26	Hz	-53.32
		oquonoy,i ic	49.70		-42.97
		The difference in			5dB, hence no Rotor fault
	CONCLUSION	exists			
6	LOAD ON MOTO	R			
U	LOAD DIVINOTO	Input power, Kw	399		
		-L L 1, 1 444			

% Loading

7 AIR GAP ECCENTRICITY

CONCLUSION No. of rotor bar data is not provided. However there is no eccentricity

patterns was observed.

8 HARMONIC DISTORTION

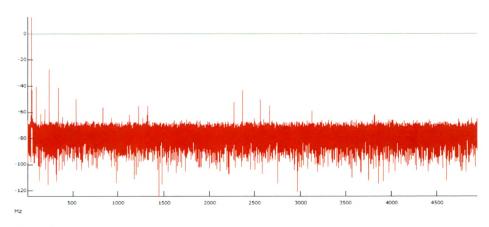
THD, %

0.30

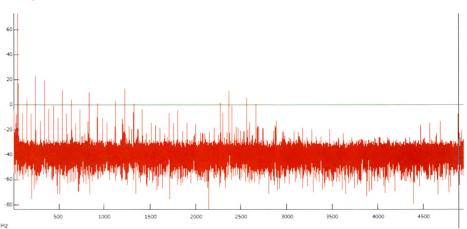
9 MISALIGNMENT

No abnormality has been detected

Current



Voltage



Page 155

	5241-CB19-3311 UNIT IDENTIFICATION C.T. RATIO P.T. RATIO OPERATION RATING	ı		2 Primary co 200/5 1905/68	oolen	it pump -	5		
	MOTOR NAME F SERIAL NO.:	PLATE		S-204752	5				
	RATING			1170 hp	-5				
	FULL LOAD CUF	RRENT		177					
				2965					
	SPEED CONNECTION			rpm					
	INSULATION CL	ASS		F					
	RATED VOLTAG			3.3 kV					
	DUTY			***					
	ENCLOSURE								
	NO OF STATOR			51 60					
	POLE	COLOTO		2					
1	POWER FACTO	R		0.232					
2	CURRENT VARI	ATIONS							
		R		141.4	Α				
		Υ		139.1	Α				
	CONCLUCION	B The Outros		138.5	Α				
	CONCLUSION	The Currer	it variations	are negligi	ibie				
3	VOLTAGE VARIA	ATIONS							
		R		3197	٧				
		Y		3194	V				
	CONCLUSION	B The Voltag	e variations	3184 sare peolio	V ible				
	CONCECCION	me voltag	O Variation	are negng	.Dic				
4	SPEED	2976	RPM						
E	ROTOR BARS				84-				
5	ROTOR BARS	Line Frequ	ency Hz	49.29		gnitude 4.59			
		Slip	J., J., T.	0.01		,,,,,			
		Slip Freque		0.39	Hz				
		Fault frequ	ency,HZ	48.50	Hz		-36.03		
	CONCLUSION	The differe	nce in mag	50.08 nitudo is m	Hz	on AEdD	-38.4	n Dotor fau	lt oviete
	CONCLUSION	THE UNIELS	noe m mag	intuud la IIII	ore ii	ian 40uD	, nence n	J NOW Idu	ir evioro
6	LOAD ON MOTO		er Kraz	170					
		Input powe % Loading		179					

CONCLUSION

No air gap eccentricity pattern was observed.

8 HARMONIC DISTORTION

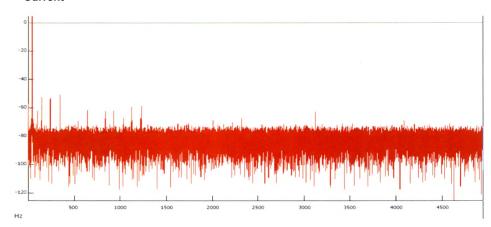
THD, %

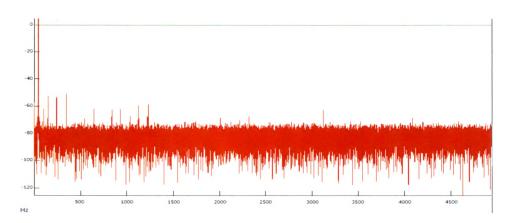
. 0.30

9 MISALIGNMENT

No abnormality has been detected

Current





	5241-CB19-3311-P UNIT IDENTIFICATION C.T. RATIO P.T. RATIO OPERATION RATING MOTOR NAME PL SERIAL NO.: RATING FULL LOAD CURR SPEED CONNECTION INSULATION CLAS RATED VOLTAGE DUTY ENCLOSURE NO OF ROTOR BA NO. OF STATOR S POLE	ATE ENT SS	2 Process v 200/5 1905/68 SPM0012 1200 hp 188 590 rpm B 3.3 kV	water pump - 1	
1	POWER FACTOR		0.206		
3	CURRENT VARIATE PHASE CONCLUSION VOLTAGE VARIATE PHASE CONCLUSION	R Y B The Current variation	3194 3194 3181	V V V	
4	SPEED	590 RPM			
5	ROTOR BARS CONCLUSION	Line Frequency, Hz Slip Slip Frequency, Hz Fault frequency,HZ The difference in mexists	49.29 0.02 0.82 47.65 50.93 agnitude is	Hz Hz -49.14	· fault
6	LOAD ON MOTOR	Input power, Kw % Loading	189		,

CONCLUSION

No data given for rotor bars. However no air gap eccentricity pattern was observed.

8 HARMONIC DISTORTION

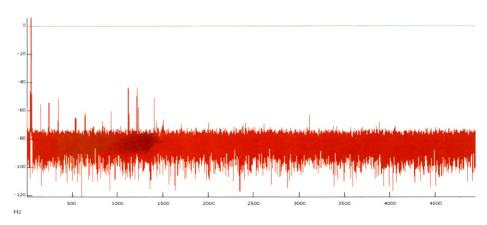
THD, %

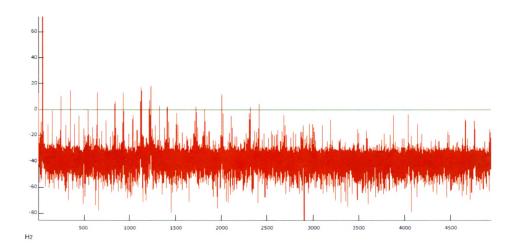
0.30

9 MISALIGNMENT

No abnormality has been detected

Current





	5241-CB21-4321- UNIT	CEP-1	2.	to outraction	
	IDENTIFICATION C.T. RATIO P.T. RATIO OPERATION		1 100/5 1905/68	te extraction	pump -
	RATING MOTOR NAME PL	_ATE			
	SERIAL NO.:		931567		
	RATING		525 hp		
	FULL LOAD CURF	KENI	80 1480		
	SPEED		rpm		
	CONNECTION				
	INSULATION CLA		В		
	RATED VOLTAGE DUTY	<u>:</u>	3.3 kV		
	ENCLOSURE				
	NO OF ROTOR BA	ARS			•
	NO. OF STATOR	SLOTS			
	POLE		4		
1	POWER FACTOR		0.194		
2	CURRENT VARIA				
		R	66.4	Α	
	,	Υ	67.3	Α	
		В	64.7	A	
	CONCLUSION	The Current variation	s are neglig	lipje	
3	VOLTAGE VARIA PHASE	TIONS			
		R	3194	V	
		Y ,	3191	V	
	0001011101001	B	3180		
	CONCLUSION	The Voltage variation	is are neglig	liple	
4	SPEED	1483 RPM			
5	ROTOR BARS			Magnitude	
		Line Frequency, Hz Slip	49.29 0.01	-1.2	
		Slip Frequency, Hz	0.56	Hz	
		Fault frequency,HZ	48.17	Hz	-58.02
	CONCLUSION	The difference in mor	50.41	Hz	-65.5 B, hence no Rotor fault exists
	CONCLUSION		gimude is III	iore uidii 400l	D, Hence no Notol Iduit exists
6	LOAD ON MOTOR		~7.4		
		Input power, Kw % Loading	71		
		70 Locumy			

CONCLUSION

No data given for rotor bars. However air gap eccentricity pattern was observed.

8 HARMONIC DISTORTION

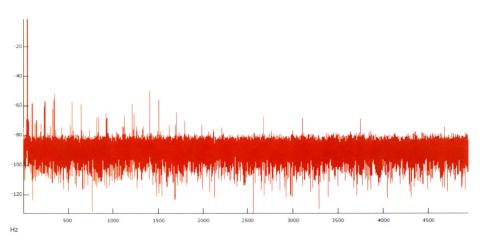
THD, %

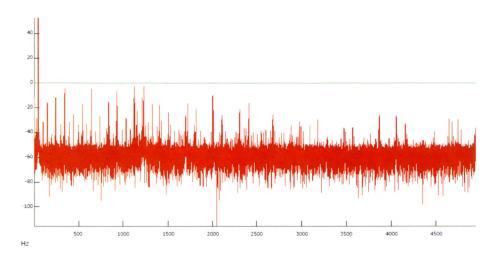
0.30

9 MISALIGNMENT

No abnormality has been detected

Current





	5241-CB22-7121-C	WP-2				
	UNIT		2			
	IDENTIFICATION		Circulatin	water pump -	2	
	C.T. RATIO		125/5			
	P.T. RATIO		1905/68		•	
	OPERATION					
	RATING					
	MOTOR NAME PLA	ATE				
	SERIAL NO.:	•	SCCWPM	00006		
	RATING		650 hp			
	FULL LOAD CURRI	ENT	114			
	SPEED		365 rpm			
	CONNECTION	_	_			
	INSULATION CLAS	SS	В			
	RATED VOLTAGE		3.3 kV			
	DUTY					
	ENCLOSURE NO OF ROTOR BAI	De				
	NO. OF STATOR S					
•	POLE	LOIS	8			
	TOLL		·	==		
1	POWER FACTOR		0.331			
_	01100001714014	7010				
2	CURRENT VARIAT	IONS				
	PHASE	n	70.0	^		
		R Y	79.9 79.8	A A		
		B.	79.6 78.4	A		
	CONCLUSION	The Current varia				
				-		
3	VOLTAGE VARIATI	IONS				
	PHASE	_				
		R	3195	V		
		Y B	3189 3180	V		
	CONCLUSION	The Voltage varia		•		
	CONCLOSION	The voltage valle	adons are ne	giigibie		
4	SPEED	371 RPM				
E	DOTOD DADO			NAit rala		
5	ROTOR BARS	Line Frequency,		Magnitude		
		Hz	49.29	0.816		
		Slip	0.01	0.0.0		
		Slip Frequency,				
		Hz	0.53	Hz		
		Fault	40.04		40.00	
		frequency,HZ	48.24 50.34		-46.83 -45.84	
		The difference in				Rotor fault
	CONCLUSION	exists	gau	and the second s		
6	LOAD ON MOTOR					
O	LOAD ON MOTOR	Input power, Kw	145			
		% Loading	170			

CONCLUSION

No data given for rotor bars. However there is no eccentricity

pattern observed.

8 HARMONIC DISTORTION

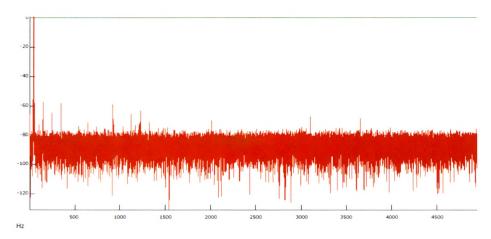
THD, %

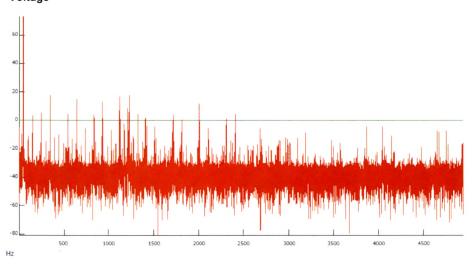
0.30

9 MISALIGNMENT

No abnormality has been detected

Current





	5231-CB15-4321- UNIT IDENTIFICATION C.T. RATIO P.T. RATIO OPERATION RATING		2 Boiler feed 200/1 420/120	pump-7	
	MOTOR NAME P SERIAL NO.: RATING	,	SPM00103 125 hp 157	3	
	FULL LOAD CUR	KENI		-	
	SPEED CONNECTION		2915		
	INSULATION CLA	ASS	В		
	RATED VOLTAG	E	415 V		
	DUTY				
	ENCLOSURE	MADO	****		
	NO OF ROTOR E		********		
	POLE	02010	2		
	•				
1	POWER FACTOR	₹	0.939		
2	CURRENT VARIA	ATIONS			
		R	129.7	Α	
		Υ	131.0	Α	
		В	127.7	Α	
	CONCLUSION	The Current variations	s are negligit	ole	
3	VOLTAGE VARIA	ATIONS			
		R	415	V	
		Y	416	V	
	CONCLUSION	B The Veltage verieties	412	V	
	CONCLUSION	The Voltage variations	s are negligii	bie	
4	SPEED	2981 RPM			
5	ROTOR BARS			Magnitude	
		Line Frequency, Hz			
		Slip	0.01 #VALUE!	1.1-	
		Slip Frequency, Hz Fault frequency, HZ	#VALUE!	Hz Hz	-40.25
		. Same insequences, it the	#VALUE!	Hz	-36.6
	CONCLUSION	The difference in mag		re than 45dB	, hence no Rotor fault exists
6	LOAD ON MOTO	R			
		Input power, Kw	87		

% Loading

CONCLUSION

No data is given for rotor nos., however no air gap eccentricity

pattern was observed.

8 HARMONIC DISTORTION

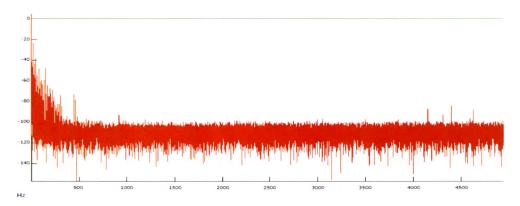
THD, %

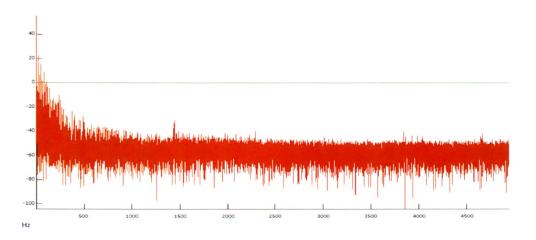
0.30

9 MISALIGNMENT

No abnormality has been detected

Current





```
5231-CB35-3211-PM-1 (LT)
   UNIT
   IDENTIFICATION
                                Moderator coolent pump - 1
                                225/1
   C.T. RATIO
   P.T. RATIO
                                 420/120
   OPERATION
   RATING
   MOTOR NAME PLATE
                                 134-144-01
   SERIAL NO.:
   RATING
                                 150 hp
   FULL LOAD CURRENT
                                 196
   SPEED
                                 2965
   CONNECTION
   INSULATION CLASS
                                 В
   RATED VOLTAGE
                                 415 V
   DUTY
   ENCLOSURE
   NO OF ROTOR BARS
   NO. OF STATOR SLOTS
   POLE
                                 2
1 POWER FACTOR
                                 0.800
2 CURRENT VARIATIONS
   PHASE
                      R
                                 187.8
                                         Α
                      Υ
                                 210.2
                                         Α
                      В
                                 192.1
                                         Α
   CONCLUSION The Current variations are negligible
3 VOLTAGE VARIATIONS
   PHASE
                      R
                                 418
                                         ٧
                      Υ
                                 419
                                         ٧
                      В
                                 418
   CONCLUSION
                  The Voltage variations are negligible
  SPEED
                   2986 RPM
5 ROTOR BARS
                                         Magnitude
                  Line
                                   50.05
                                             7.14
                  Frequency, Hz
                  Slip
                                    0.00
                  Slip Frequency,
                                    0.23 Hz
                  Hz
                  Fault
                  frequency,HZ
                                   49.58 Hz
                                                    -22.36
                                                    -28.82
                                   50.52 Hz
                  The difference in magnitude is less than 45dB, hence there may be Rotor
   CONCLUSION
                  fault exists
6 LOAD ON MOTOR
                  Input power,
                  Kw
                                     114
                  % Loading
```

CONCLUSION

No data is given for rotor nos., however no air gap eccentricity pattern was observed.

8 HARMONIC DISTORTION

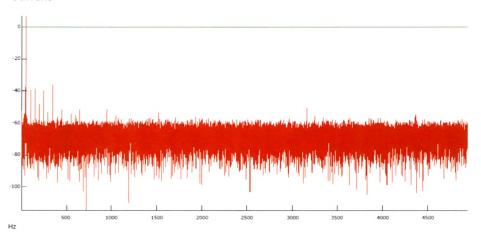
THD, %

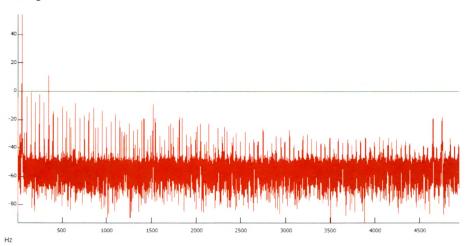
0.30

9 MISALIGNMENT

No abnormality has been detected

Current





	5231-CB33-3211-PM-3 (LT) UNIT IDENTIFICATION C.T. RATIO P.T. RATIO OPERATION RATING		2 Moderato 225/1 420/120	r coolent pum	np-3	-
	MOTOR NAME PLATE SERIAL NO.: RATING FULL LOAD CURRENT SPEED CONNECTION INSULATION CLASS RATED VOLTAGE DUTY		340-38-10 150 hp 196 2965 B 415 V	0 2 · .		
	ENCLOSURE NO OF ROTOR BARS NO. OF STATOR SLOTS POLE		2			
1	POWER FACTOR		0.880			
2	CURRENT VARIATIONS PHASE					
		R Y	200.9 199.9	A A		
		B	201.2	A		***
	CONCLUSION	The Current variations ar				
		. •				***************************************
3	VOLTAGE VARIATIONS PHASE	. •				
		R	414	V		-
		Υ	417	V		1
		В	413	٧		-
	CONCLUSION	The Voltage variations ar	e negligible	ı		
4	SPEED	2982 RPM		•		
5	ROTOR BARS			Magnitude		
		Line Frequency, Hz Slip	49.9 0.01	8.68		
		Slip Frequency, Hz	0.30	Hz		1
		Fault frequency,HZ	49.30	Hz	-27.72	
				Hz	-37.5	
	CONCLUSION	The difference in magnitue fault exists	ide is less ti	han 45dB, he	nce there may be	Rotor
6	LOAD ON MOTOR					
		Input power, Kw % Loading	127			

CONCLUSION

No data is given for rotor nos., however no air gap eccentricity

pattern was observed.

8 HARMONIC DISTORTION

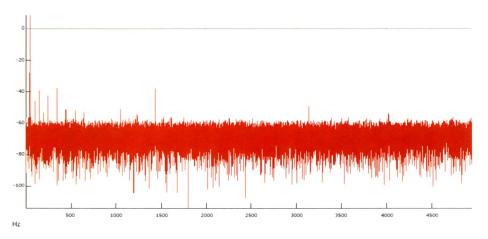
THD, %

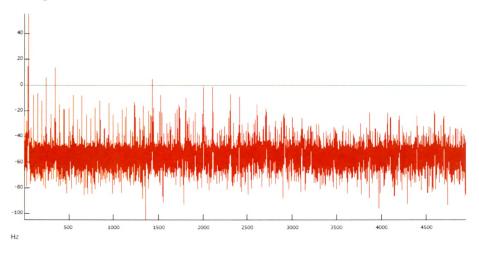
0.30

9 MISALIGNMENT

No abnormality has been detected

Current





	5231-CB32-3211-PM-5 (LT) UNIT IDENTIFICATION C.T. RATIO P.T. RATIO OPERATION RATING MOTOR NAME PLATE		2 Moderator 225/1 420/120	r coolent p	oump -5	
	SERIAL NO.:		918874			
	RATING		150 hp			
	FULL LOAD CURRENT		196			
	SPEED CONNECTION		2965 			
	INSULATION CLASS		В			
	RATED VOLTAGE		415 V			
	DUTY					
	ENCLOSURE		*****			
	NO OF ROTOR BARS					
	NO. OF STATOR SLOTS POLE		2	•		,
	POLE		2			-
1	POWER FACTOR		0.850			
2	CURRENT VARIATIONS PHASE					
		R	215.1	Α		
		Υ	224.2	Α		
		В	217.9	Α		
	CONCLUSION	The Current variation	ns are negli	gible		
3	VOLTAGE VARIATIONS PHASE					
		R	420	٧		
		Y	422	V		
	CONCLUCION	B The Voltage verieties	419	V		
	CONCLUSION	The Voltage variation	ns are negli	gible		
4	SPEED	2977 RPM				
5	ROTOR BARS			Magnitue	de	
		Line Frequency, Hz	49.9	9.00	•	
		Slip	0.01			
		Slip Frequency, Hz Fault frequency,HZ	0.38		11 E	
		rault frequency, riz.	49.13 50.67	Hz Hz	-41.5 -40.79	
	CONCLUSION	The difference in ma fault				otor
		exists				
6	LOAD ON MOTOR		400			
		Input power, Kw % Loading	136			

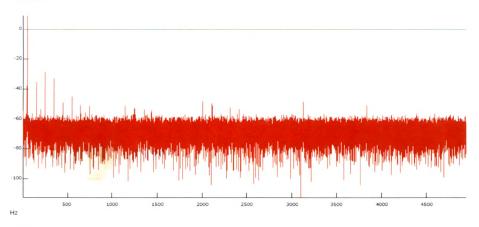
CONCLUSION No data is given for rotor nos., however no air gap eccentricity pattern was observed.

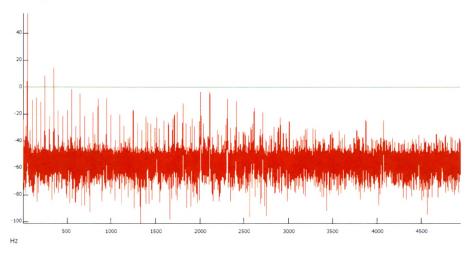
8 HARMONIC DISTORTION

THD, % 0.30

9 MISALIGNMENT No abnormality has been detected

Current





	5231-CB31-3331-PM-3 (LT) UNIT IDENTIFICATION C.T. RATIO P.T. RATIO OPERATION RATING MOTOR NAME PLATE		2 Auxiliary f 165/1 420/120	eed pump - 3	
	SERIAL NO.:		78115671	-2	
	RATING		125 hp		
	FULL LOAD CURRENT SPEED		158 1475		
	CONNECTION		1470		
	INSULATION CLASS		В		
	RATED VOLTAGE		415 V		
	DUTY		***		
	ENCLOSURE	•	PR 14-00.00		
	NO OF ROTOR BARS NO. OF STATOR SLOTS		****		
	POLE		4		•
1	POWER FACTOR		0.770		
2	CURRENT VARIATIONS PHASE				
		R	84.8	Α	
		· Y	77.9	Α	
	0010110101	В	86.4	A	
	CONCLUSION	The Current variations	are negligi	DIE	
3	VOLTAGE VARIATIONS PHASE				
		R	417	٧	
		Y	420	٧	
	CONCLUSION	B The Voltage variations	417	V blo	
	CONCLUSION	The voltage variations	are negligi	DIE	
4	SPEED	1489 RPM			
5	ROTOR BARS			Magnitude	
		Line Frequency, Hz Slip	49.9 0.01	-0.64	
		Slip Frequency, Hz	0.37		
		Fault frequency,HZ	49.17	Hz	-52.2
	CONCLUSION	The difference in mag	50.63 nituda is mo	Hz ore than 45dB	-47.12
	OUNCLOSION	fault exists	made is inc	ле шап 4000	, hence no rotoi
6	LOAD ON MOTOR	, want another			
		Input power, Kw % Loading	46		

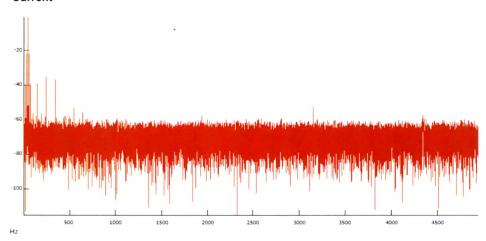
No data is given for rotor nos., however no air gap eccentricity pattern was observed. CONCLUSION

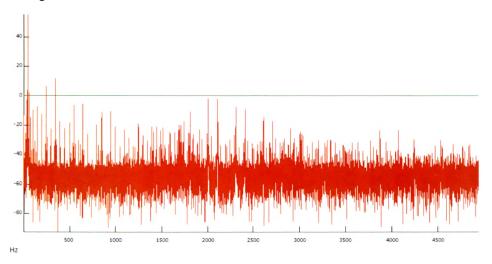
8 HARMONIC DISTORTION

0.30 THD, %

No abnormality has been detected 9 MISALIGNMENT

Current





	5231-CB36-3331-PM-4 (LT) UNIT IDENTIFICATION C.T. RATIO P.T. RATIO OPERATION RATING		2 Auxiliary f 165/1 420/120	eed pump - 4		
	MOTOR NAME PLATE SERIAL NO.:		78115671	-1		
	RATING	ř.	125 hp			
	FULL LOAD CURRENT		158			
	SPEED		1475			
	CONNECTION					
	INSULATION CLASS RATED VOLTAGE		B 415 V			
	DUTY		410 V			
	ENCLOSURE					
	NO OF ROTOR BARS					
	NO. OF STATOR SLOTS					
	POLE	9. 5	4			
` 1	POWER FACTOR		0.865			
2	CURRENT VARIATIONS PHASE					
		R	85.1	Α		
		Y	91.1	A		
	CONOLUCION	B	93.1	A		
	CONCLUSION	The Current variatio	ns are negii	gible		
3	VOLTAGE VARIATIONS PHASE					
		R	417	V .		
		Y	417	V		
	CONOLUCION	B	418	V		
	CONCLUSION	The Voltage variatio	ns are negi	igible		
4	SPEED	1486 RPM				
5	ROTOR BARS			Magnitude		
		Line Frequency, Hz		0.20		
		Slip	0.01			
		Slip Frequency, Hz	0.47		40.40	
		Fault frequency,HZ	48.97 50.83	Hz Hz	-49.16 -50.43	
	CONCLUSION	The difference in ma				otor
6	LOAD ON MOTOR					
		Input power, Kw % Loading	56			

CONCLUSION

No data is given for rotor nos., however no air gap eccentricity pattern was observed.

8 HARMONIC DISTORTION

THD, %

0.30

9 MISALIGNMENT

No abnormality has been detected

10 Starting current

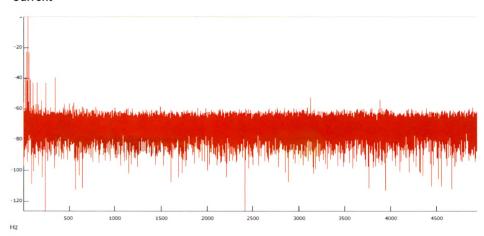
(Max. Peak)

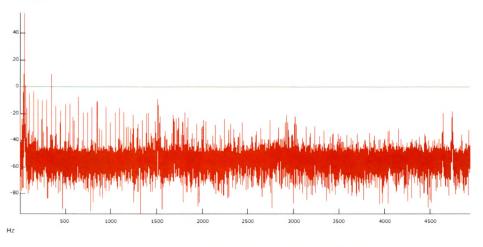
1916 Amp

11 Starting time

400 msec

Current





	5241-CB35-7131-PWP-2 (HT) UNIT IDENTIFICATION C.T. RATIO P.T. RATIO	-		2 Process w 200/5 1905/68	vater pump - 2	2	
	OPERATION RATING MOTOR NAME PLATE						
	SERIAL NO.:			SPM0012	9		
	RATING FULL LOAD CURRENT			1200 hp 188			
	SPEED			590			
	CONNECTION INSULATION CLASS			В			
	RATED VOLTAGE			3.3 kV			
	DUTY						
	ENCLOSURE NO OF ROTOR BARS			****			
	NO. OF STATOR SLOTS						
	POLE			10		· .	
1	POWER FACTOR			0.869	·		
2	CURRENT VARIATIONS PHASE			,			
-		R		156.5	Α		
		Y		152.5	A		
	CONCLUSION	B The Current va	riation	152.7 s are negli	A aible		
				g,	3		
3	VOLTAGE VARIATIONS PHASE	_					
		R Y		3402 3405	V		
		В		3373	V		
	CONCLUSION	The Voltage va	riation	s are negli	gible		
4	SPEED	591 RPN	M				
5	ROTOR BARS				Magnitude		
		Line Frequency Slip		48.68 0.02	6.13		
		Slip Frequency	, Hz		Hz	40.04	
	•	Fault frequency	y,HZ	47.22 50.14	Hz Hz	-48.91 -52.14	
	CONCLUSION	The difference fault exists	in mag			dB, hence no Rotor	
6	LOAD ON MOTOR						
		Input power, Ki % Loading	W	786		•	

CONCLUSION

No data is given for rotor nos., however no air gap eccentricity pattern was observed.

8 HARMONIC DISTORTION

THD, %

0.30

9 MISALIGNMENT

No abnormality has been detected

10 Starting current

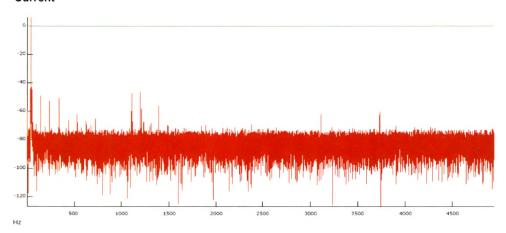
(Max. Peak)

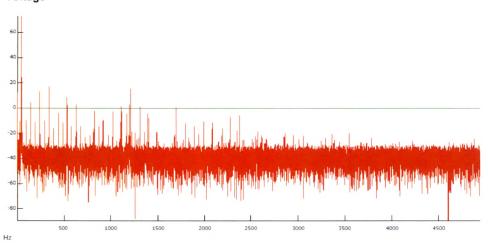
--- Amp

11 Starting time

2140 msec

Current





	5241-CB13-7133-PWPB-	1 (HT)				
	UNIT			2	intar hanatar	24. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	IDENTIFICATION			1	ater booster	pump -
	C.T. RATIO			100/5		
	P.T. RATIO			1905/68		
	OPERATION					
	RATING					
	MOTOR NAME PLATE					
	SERIAL NO.:			4000/41/1	02	
	RATING			450 hp		
	FULL LOAD CURRENT			70		
	SPEED			985		
	CONNECTION					
	INSULATION CLASS			В		
	RATED VOLTAGE			3.3 kV		
	DUTY					
	ENCLOSURE					
	NO OF ROTOR BARS NO. OF STATOR			-		
	SLOTS					
	POLE			6		
				-		
1	POWER FACTOR			0.853		
	CURRENT					
2	VARIATIONS					
	PHASE					
		R		47.8	Α	
	•	Y		47.7	Α	
		В		46.3	Α	
	CONCLUSION	The Current va	ariations a	re negligibi	е	
	VOLTAGE					
3	VARIATIONS					
	PHASE					
		R		3303	V	
		Υ		3295	٧	
		В		3303	V	
	CONCLUSION	The Voltage va	ariations a	re negligibl	е	
	OBEED	000	mm.			
4	SPEED	980	RPM			
5	ROTOR BARS				Magnitude	
3	NOTON BAILO	Line Frequency	v H7	48.98	72.13	
		Slip	y, 112	0.02	72.10	
		Slip Frequency	ı. Hz	0.98	Hz	
		Fault frequency		47.02	Hz	-2.66
			•	50.94	Hz	0.982
	CONCLUSION	The difference in magnitude is more than 45dB, hence no Rot faults				
c	LOAD ON MOTOR	Exisit				
6	LOAD ON MOTOR	Input power, K	`.a.	230		
		% Loading	W	230		
		, a Louding				

CONCLUSION No data is given for rotor nos., however no air gap eccentricity pattern was observed.

8 HARMONIC DISTORTION

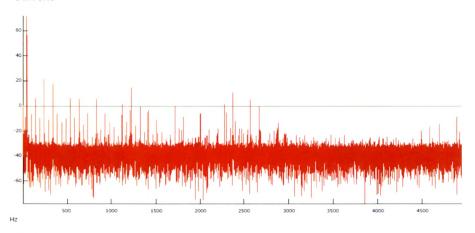
THD, % 0.30

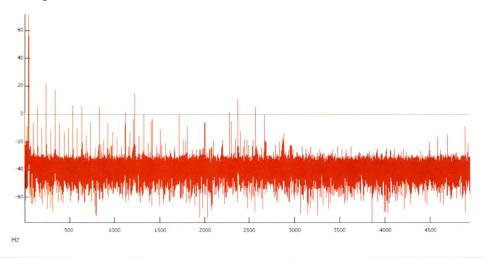
9 MISALIGNMENT No abnormality has been detected

10 Starting current (Max. Peak) 1012 Amp

11 Starting time 673.1 msec

Current





	5241-CB26-4321-1 UNIT IDENTIFICATION C.T. RATIO P.T. RATIO OPERATION RATING MOTOR NAME PI		2 Boiler feed 100/5 1905/68	d pump -6	•			
	SERIAL NO.:	LAIC	SPM0010	2				
	RATING		600 hp					
	FULL LOAD CURI	RENT	93.5					
	SPEED CONNECTION		2960	2960				
	INSULATION CLA	SS	В					
	RATED VOLTAGE		3.3 kV					
	DUTY		****					
	ENCLOSURE		****					
	NO OF ROTOR B		~~~					
	NO. OF STATOR	SLUIS	2 -					
	1 0							
1	POWER FACTOR	1	0.869					
2	CURRENT VARIATIONS PHASE							
		R	37.6	Α				
		Y	36.6	A				
	CONCLUCION	B The Correct resid	36.1	A -1:-:-:-				
	CONCLUSION	The Current varia	tions are ne	giigible				
3	VOLTAGE VARIA	TIONS						
		R	3194	٧				
		Y	3186	٧				
	CONCLUSION	B The Voltage varia	3169	V aliaible				
	CONCLUSION	The Voltage Varia	itions are ne	gligible				
4	SPEED	2972 RPM						
5	ROTOR BARS			Magnitude				
		Line Frequency,	40.00	0.07				
	·	Hz Slip	48.68 0.01	-6.67				
		Slip Frequency,	0.01					
		Hz	0.45	Hz				
		Fault	4777	1.1	04.00			
		frequency,HZ	47.77 49.59	Hz Hz	-61.92 -58.87			
	CONCLUSION	The difference in exists			45dB, hence no Rotor fault			
e	LOAD ON MOTO				·			
6	LOAD ON MOTOR	≺ Input power, Kw % Loading	176					
		~						

CONCLUSION

No data is given for rotor nos., however no air gap eccentricity

pattern was observed.

8 HARMONIC DISTORTION

THD, %

0.30

9 MISALIGNMENT

No abnormality has been detected

10 Starting current

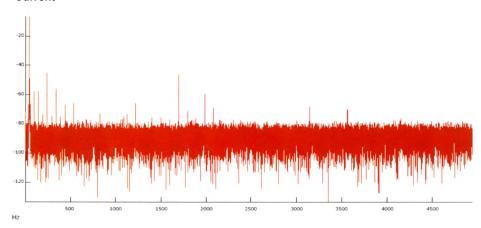
(Max. Peak)

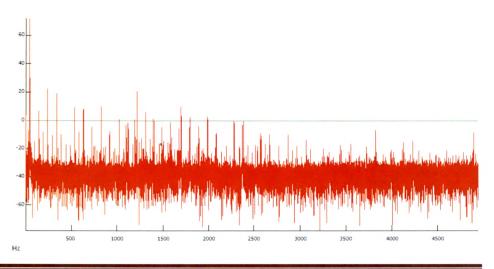
975 Amp

11 Starting time

1525 msec

Current





	5241-CB26-4321-I	DED & /UT)						
	UNIT	3FF-0 (NI)	2					
	IDENTIFICATION			Boiler feed pump -6				
	C.T. RATIO		100/5	· · · · · · · · · · · · · · · · · · ·				
	P.T. RATIO OPERATION		1905/68					
	RATING							
	MOTOR NAME PL	_ATE						
	SERIAL NO.:		SPM0010	2				
	RATING		600 hp					
	FULL LOAD CURP	RENT	93.5					
	SPEED		2960					
	CONNECTION							
	INSULATION CLA		В					
	RATED VOLTAGE	•	3.3 kV					
	DUTY		m* ***					
	ENCLOSURE		del allega lam		*			
	NO OF ROTOR BA							
	NO. OF STATOR	SLOTS						
	POLE		2					
1	POWER FACTOR		0.869					
,	TOWERTACION	•	Q.000					
2	CURRENT VARIA	TIONS						
	PHASE							
		R	37.6	Α				
		Υ	36.6	Α				
		В	36.1	Α				
	CONCLUSION	The Current varia	ations are ne	gligible				
_	1/01 TA OF 1/4 DIA:	TIONO						
3	VOLTAGE VARIA	HONS						
	FNASE	R	3194	V				
		Ϋ́	3186	V				
		В	3169	v				
	CONCLUSION	The Voltage varia		-				
				<i>a-</i> ,9				
4	SPEED	2972 RPM						
5	ROTOR BARS			Magnitude				
		Line Frequency, Hz	48.68	-6.67				
		Slip	0.01	-0.07				
		Slip Frequency,	0.01					
		Hz	0.45	Hz				
		Fault						
		frequency,HZ	47.77	Hz	-61.92			
		777	49.59	Hz	-58.87			
	CONCLUSION	The difference in exists	magnitude i	s more than 4	5dB, hence no Rotor fault			
	CONCLUCION	UNISUS						
6	LOAD ON MOTOR	₹						
-		Input power, Kw	176					
		% Loading						

CONCLUSION

No data is given for rotor nos., however no air gap eccentricity pattern was observed.

8 HARMONIC DISTORTION

THD, %

0.30

9 MISALIGNMENT

No abnormality has been detected

10 Starting current

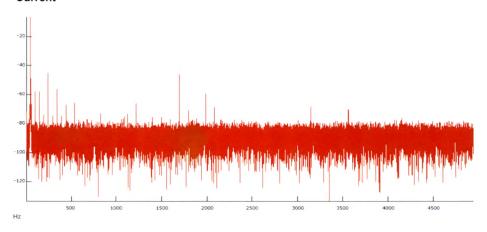
(Max. Peak)

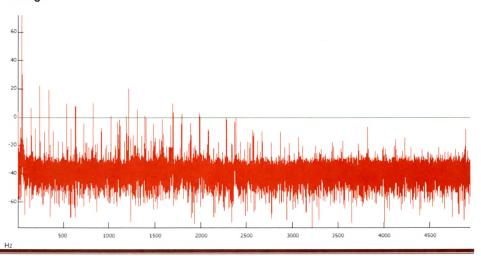
975 Amp

11 Starting time

1525 msec

Current





	5241-CB40-3331- UNIT IDENTIFICATION C.T. RATIO P.T. RATIO OPERATION RATING MOTOR NAME PI	·	2 PM spare 250/5 1905/68	motor	
	SERIAL NO.:	LAIE	400313		
	RATING		350 hp		
	FULL LOAD CURI	RENT	56		
	SPEED CONNECTION		2975		
	INSULATION CLA	SS	В		
	RATED VOLTAGE		3.3 kV		
	DUTY	•			
	ENCLOSURE				
	NO OF ROTOR B				
	POLE	SLUIS	2		
		•	_		
1	POWER FACTOR		0.471		
2	CURRENT VARIA				
	FILAGE	R	15.9	Α	
		Y	19.0	A	
		В	16.1	Α	
	CONCLUSION	The Current var	iations are ne	gligible	
3	VOLTAGE VARIA PHASE	TIONS			
		R	3180	٧	
		Y	3170	٧	
	CONCLUSION	B The Veltage van	3154	V	
	CONCLUSION	The Voltage var	iadons are ne	gigible	
4	SPEED	2976 RPM			
5	ROTOR BARS	•		Magnitude	
		Line Frequency,		42.04	
		Hz Slip	48.98 0.01	-13.84	
		Slip Frequency,	0.01		
		Hz	0.39	Hz	
		Fault frequency,HZ	48.20	Hz	-75.91
		irequericy,nz	49.76	nz Hz	-75.91 -71.47
		The difference in			5dB, hence no Rotor fault
	CONCLUSION	exists			
6	LOAD ON MOTO				
		Input power, Kw % Loading	44		

CONCLUSION No data is given for rotor nos., however no air gap eccentricity

pattern was observed.

8 HARMONIC DISTORTION

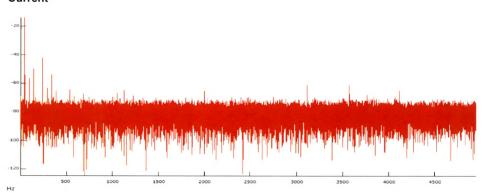
THD, % 0.30

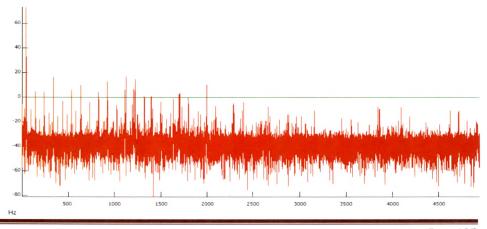
9 MISALIGNMENT No abnormality has been detected

10 Starting current (Max. Peak) 906 Amp

11 Starting time 1193 msec

Current





	5241-CB28-4321-B	FP-2	2 Dellas form	d	
	IDENTIFICATION C.T. RATIO P.T. RATIO OPERATION RATING		Boiler feed 2 400/5 1905/68	a pump -	
	MOTOR NAME PLA	ATE	2-		
	SERIAL NO.: RATING FULL LOAD CURRI SPEED CONNECTION INSULATION CLAS RATED VOLTAGE DUTY ENCLOSURE NO OF ROTOR BAI	s	155101 2500 hp 375 2960 B 3.3 kV		
	NO. OF STATOR S		* .	*.*	
	POLE		2		
1	POWER FACTOR	-	0.914		
2	CURRENT VARIAT	IONS			
	CONCLUSION	R Y B The Current variat	236.9 231.5 229.0 ions are ne	A A A aliaible	
3	VOLTAGE VARIATI			gg.2.2	
	PHASE	R Y B The Voltage variat	3183 3172 3151 tions are ne	V V V gligible	
4	SPEED	2963 RPM			
5	ROTOR BARS	Line Frequency, Hz Slip Slip Frequency, Hz	48.98 0.01 0.60	Magnitude 10.24 Hz	
		Fault	47.77		-51.26
		frequency,HZ	50.19	Hz Hz	-50.75
	CONCLUSION	The difference in r exists	nagnitude is	s more than 4	5dB, hence no Rotor fault
6	LOAD ON MOTOR	Input power, Kw % Loading	1166		

CONCLUSION

No data is given for rotor nos., however no air gap eccentricity pattern was observed.

8 HARMONIC DISTORTION

THD, %

0.30

9 MISALIGNMENT

No abnormality has been detected

10 Starting current

(Max. Peak)

4493 Amp

11 Starting time

3366 msec

Current

