

NAPHTHA FEED PUMP MOTOR - MAT CODE : 6508080023

MDS0100057507-0010



CROMPTON GREAVES LTD.
LT MOTORS DIVISION
AHMEDNAGAR

CUSTOMER : SULZER PUMPS INDIA LTD
INDENT NO : NAMA115339/100
PO NO : 1012038
PO DATE : 12/11/2011



MEDIUM VOLTAGE SQUIRREL CAGE INDUCTION MOTOR

Datasheet No.
6907-118-XZ-DS-5335
Rev-0
Page 1 of 1

PURCHASER'S DATA

A. Site conditions					
1	Ambient temperature,	minimum: 1 °C	3	Atmospheric condition:	Humid & highly corrosive
		maximum: 39.8 °C	4	Altitude:	< 1000 m
		design: 40 °C	5	Location:	Outdoor
2	Relative humidity:	85 %	6		
B. Technical particulars					
1	Motor tag no.:	141-PA-02 A, 141-PA-02 B,			
2	Driven equipment name:	As Per Customer (NAPHTHA FEED PUMP)			
3	Voltage:	415, +/-6%	16	Hazardous area classification:	ZONE I, DIV. I,
4	Phase:	3	17	Gas group/Temp class:	IIA/IIIB; T3
5	Frequency:	50, +/-3%	18	Type of explosion protection:	EEx 'd'
6	Fault level:	NA	19	Type of ingress protection:	IP55
7	Method of starting:	Direct On Line	20	Color shade:	RAL 6032 as per IS5
8	Winding connection:	Delta	21	Thermistors:	☐ Required ☒ Not Required
9	No. of terminals:	6	22	RTD:	☐ Required ☒ Not Required
10	Cable size:	1 * 3C, 150-MM ²	23	BTD:	☐ Required ☒ Not Required
11	Cable type:	AI cond. PVC insulated armoured	24	RTD/BTD monitoring device:	☐ Required ☒ Not Required
12	Temperature rise:	80			
13	Cooling:	IC411			
14	Insulation class:	B / F with temp rise limited to Class B.	25	Applicable specification:	EIL spec. 6-51-0032 & 6907-118-XZ-SP-5335
15					

DRIVEN EQUIPMENT MANUFACTURER'S DATA

1	Suggested motor rating:	55 kW	9	Torque required,	starting: 26.04 mkg
2	Manufacturer:	SULZER PUMPS INDIA LTD			maximum: 176.26 mkg
3	BkW at full load:	40.63 kW	10	GD ² of eqpt.,	including flywheel: 3.9724 kgm ²
4	kW at end of curve:	49.5 kW			excluding flywheel: 1.3724 kgm ²
5	Speed:	2980 RPM	11	Thrust, up:	NA kg
6	Rotation viewed from coupling end:	CW		down:	NA kg
7	Driven equipment:	PUMP	12	Starting condition:	Direct On Line
8	Coupling type:	FLEXIBLE COUPLING			

MOTOR MANUFACTURER'S DATA

1	Rating:	55 kW	17	Efficiency at,	75% voltage: 92 %
2	Manufacturer:	CROMPTON GREAVES LTD.			100% voltage: 93 %
3	No. of poles:	2	18	Power factor at,	starting: 0.30-0.50
4	Frame designation:	E250M			100% load: 0.92
5	Full load speed:	2980 RPM	19	Moment of inertia, GD ²	3.40 kgm ²
6	Mounting:	B3	20	NDE bearing type & no.:	BALL/6315
7	Full load torque (FLT):	17.98 mkg	21	DE bearing type & no.:	BALL/6315
8	Starting torque:	200 % of FLT	22	Type of lubrication:	Lithium base grease grade II
9	Break down or pull out torque:	250 %	23	Weight of motor:	2980 kg
10	Full load current (FLC):	89.00 A	24	Thermistors,	quantity: NA
11	Starting current at 100% voltage:	600 % of FLC		type:	type: NA
12	Rotation viewed from coupling end:	Bidirectional	25	RTD,	quantity: NA
13	Starting time at,	75% voltage: 3.47 sec.		make:	type: NA
		100% voltage: 1.95 sec.	26	BTD,	quantity: NA
14	Locked rotor withstand time (cold/hot) at,	75% voltage: 43/21 sec.		make:	type: NA
		100% voltage: 24/12 sec.	27	Shaft voltage:	
15	Space heater - voltage & power:	60WX2, 230V, 1-phase	28	Critical speed, 1 st /2 nd stage:	
16	Applicable IS/IEC for hazardous area application:	IS-2148, IS-1231, IS-325,	29	Canopy (FRP):	☒ Required ☐ Not Required
			PROVIDED BY SULZER PUMPS INDIA LTD		

- Starting time calculations shall be based on operating conditions specified on Material Requisition eg. open valve condition/ closed valve condition, at no load/full load, as applicable.
- All blank data shall be filled by vendor

B	18.11.08	ISSUED WITH MR	MHR	SV	UAP
A	08.09.2008	ISSUED WITH MR	MHR	SV	UAP
Rev. No:	Date	Purpose	Prepared by	Checked by	Approved by

NOTE : 1) ALL PERFORMANCE FIGURES ARE SUBJECT TO IS 325 - 1996 TOLERANCES.

ISSUED BY : Anand Hangal
LT MOTORS DIVISION, AHMEDNAGAR

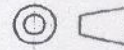


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24/05/2011



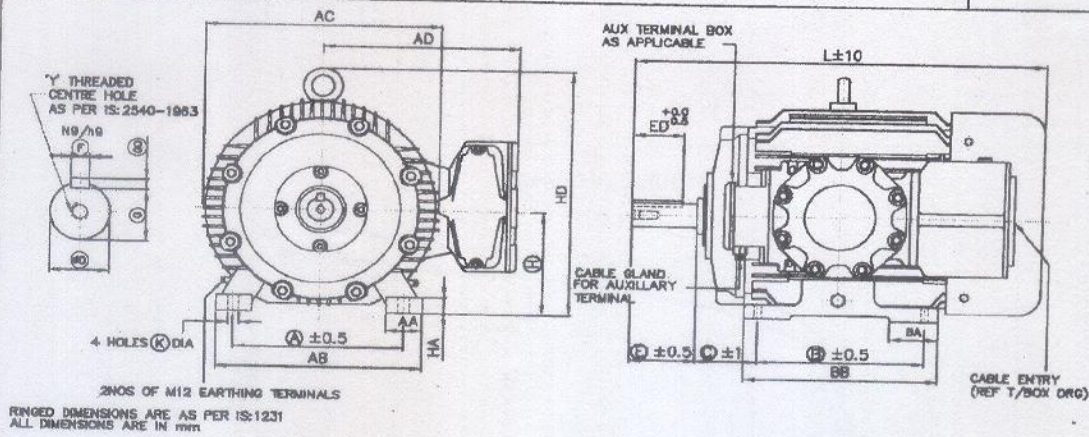
OUTLINE DIMENSION DRAWING OF 3 PHASE SQUIRREL CAGE TEFC FOOT MOUNTED TB ON RHS INDUCTION MOTOR

PROJECTION



DO NOT SCALE

PLEASE ASK, IF IN DOUBT



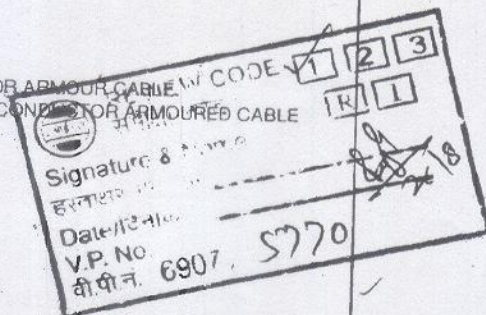
FRAME SIZE	FOOT FIXING										OVER ALL				
	A	B	B1	C	H TOL	AA	AB	BA	BB	K TOL	AD	AC	L	HD	HA
E250M	196	349	311	188	250.0 / 249.5	90	483	160	419	24.5 / 24.0	440	560	977	605	32

SHAFT AND KEY						
D TOL	E	ED	F TOL	GD TOL	G	Y
60.030 / 60.011	140	110	18.00 / 17.957	11.00 / 10.91	53.0 / 52.8	M20X40

FLAMEPROOF MOTOR ENCLOSURE - EEx'd, ZONE 1, GROUP IIA/IIB, T3
TERMINAL BOX SUITABLE FOR ROTATION THROUGH 360° IN STEPS OF 90°

MAIN TERMINAL BOX SUITABLE FOR 1RX3CX150MM2 PVC INSULATED AL CONDUCTOR ARMOURED CABLE
SPACE HEATER TERMINAL BOX SUITABLE FOR 1RX3CX2.5MM2 PVS INSULATED CU CONDUCTOR ARMOURED CABLE

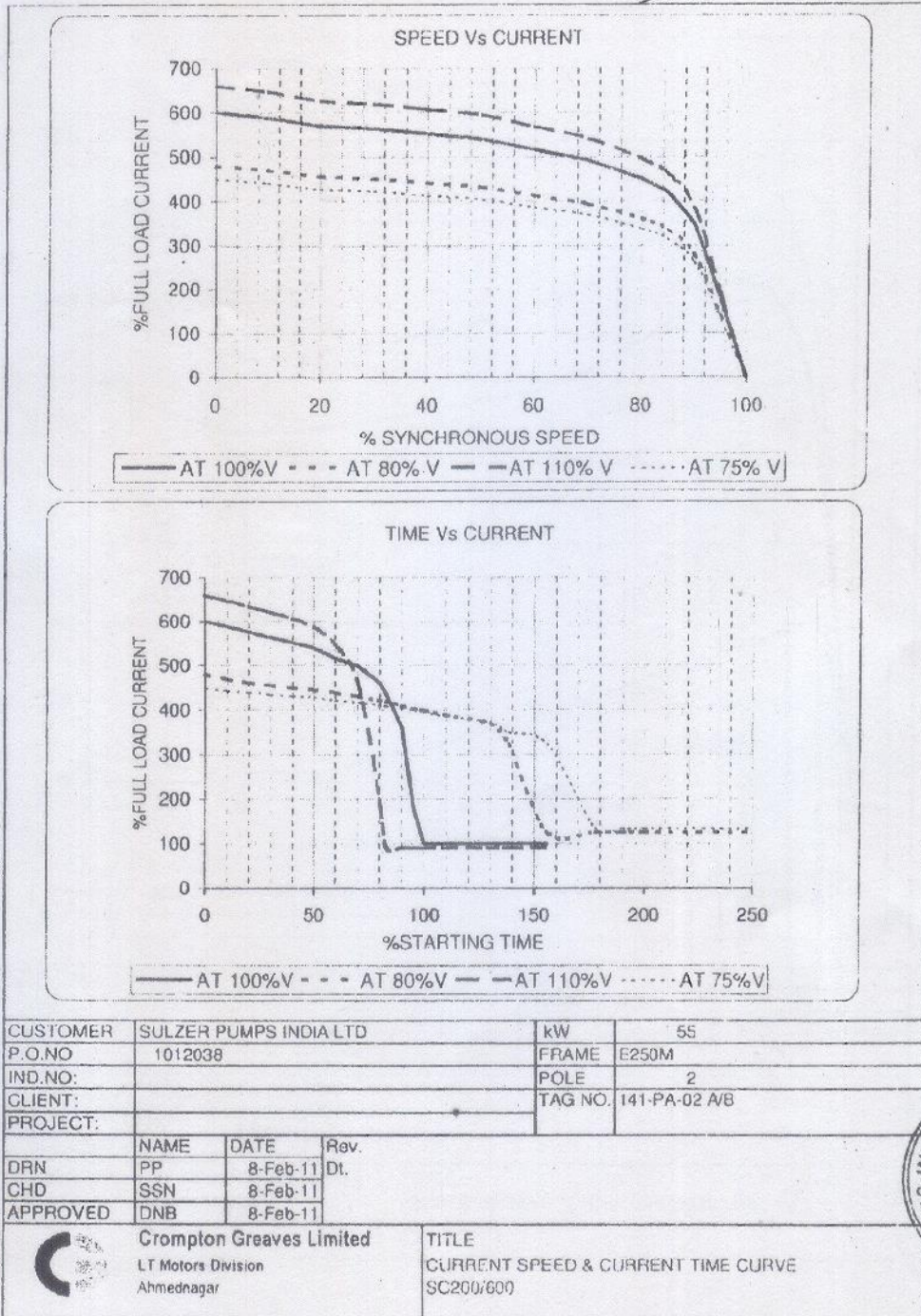
ERTL Test Report ERTL(E)TES/C184/0009/06-07 Dt. 17/08/2007
DGMS Letter No. 83/2360/EHQ Dt. 12/08/2010
DGMS Approval No. 79
CCE Letter No. A/P/HQ/MH/104/1534(P211851) Dt. 13/06/2008



CUSTOMER	SULZER PUMPS INDIA LTD	KW	55
P.O. NO.	1012038	FRAME	E250M
IND. NO.	NAMAI15339/100	POLE	2
CLIENT	EIL	TAG NO.	141-PA-02 A, 141-PA-02 B,
PROJECT			
DRN	SBK	DATE	24-May-11
CHD	SBK	DATE	24-May-11
APPROVED	DNB	DATE	24-May-11
ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SPECIFIED			
Crompton Greaves Limited LT Motors Division Ahmednagar		TITLE OUTLINE DIMENSION DRAWING	
		E160B3,V6RHS	

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→ MPC 0100057507-0080C1/4)

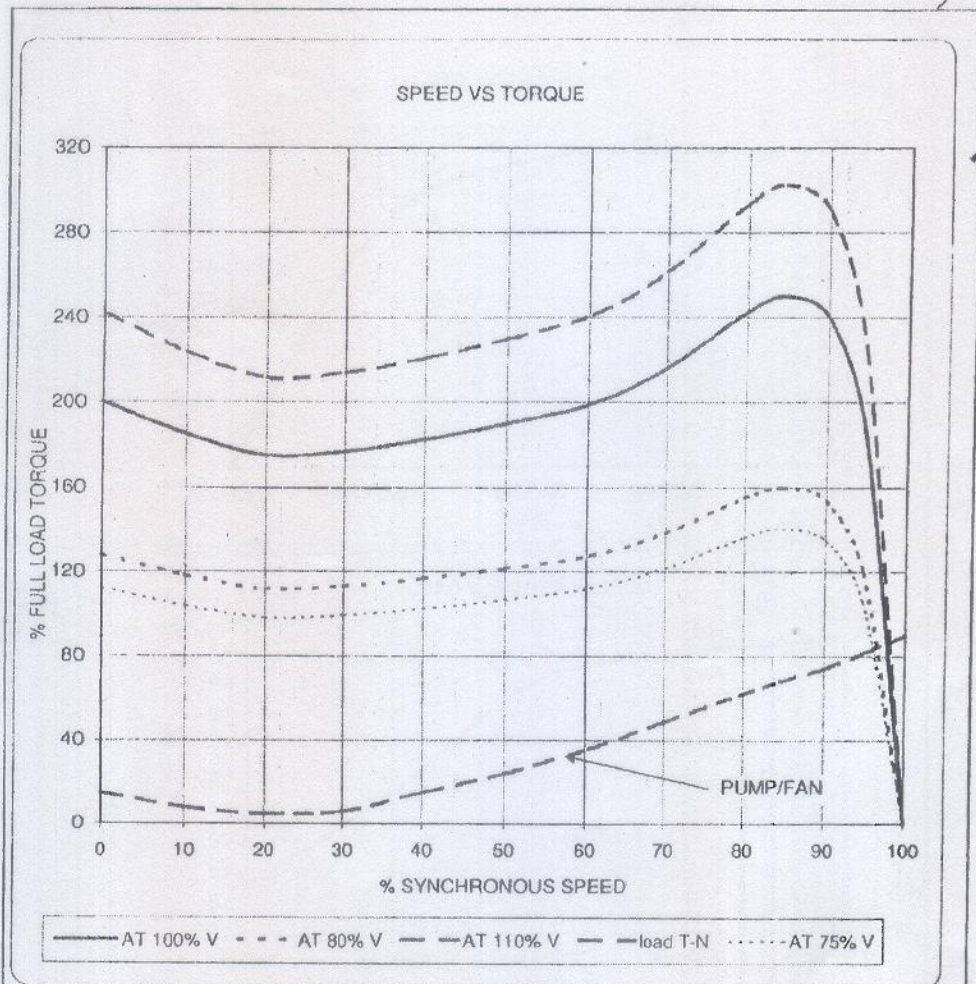


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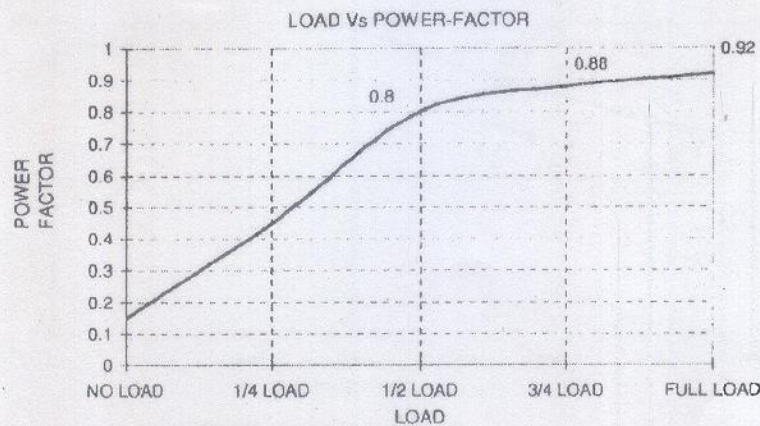
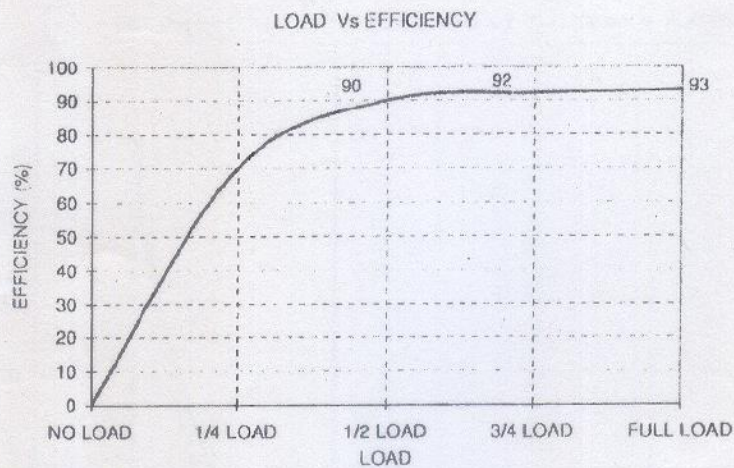
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P.O.NO	1012038			FRAME	E250M
IND NO:				POLE	2
CLIENT:				TAG NO.	141-PA-02 A/B
PROJECT:					
	NAME	DATE	Rev.		
DRN	PP	8-Feb-11	01		
CHD	SSN	8-Feb-11			
APPROVED	DNB	8-Feb-11			
	Crompton Greaves Limited			TITLE	
	LT Motors Division Ahmednagar			SUPERIMPOSED TORQUE SPEED CURVE SC200/600	

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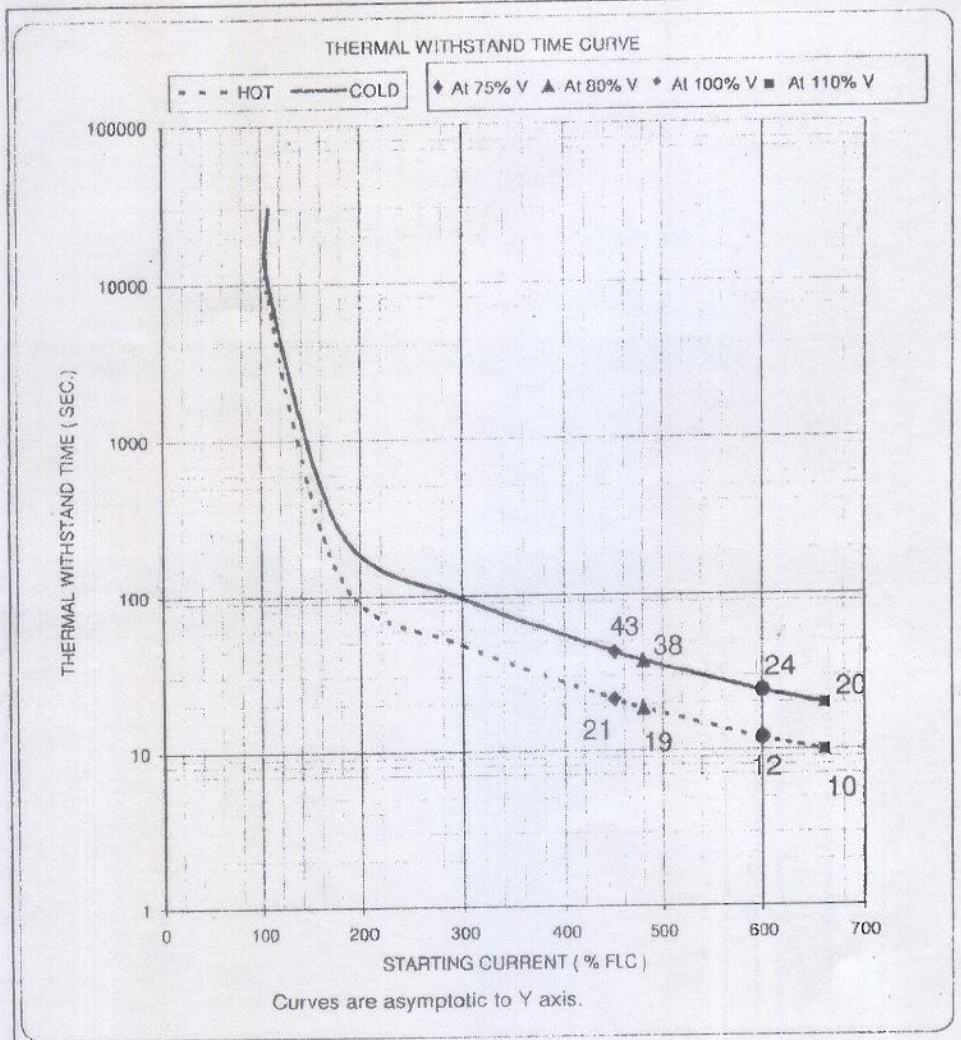


CUSTOMER		SULZER PUMPS INDIA LTD		kW		55	
P.O.NO		1012038		FRAME		E250M	
IND.NO:				POLE		2	
CLIENT:				TAG NO.		141-PA-02 A/B	
PROJECT:							
	NAME	DATE	Rev.				
DRN	PP	8-Feb-11	Dt.				
CHD	SSN	8-Feb-11					
APPROVED	DNB	8-Feb-11					
Crompton Greaves Limited LT Motors Division Ahmednagar				TITLE LOAD Vs EFFICIENCY & POWER FACTOR CURVE SC93.00/0.92			



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CUSTOMER	SULZER PUMPS INDIA LTD		kW	55
P.O. NO.	1012038		FRAME	E250M
IND. NO.			POLE	2
CLIENT:			TAG NO.	141-PA-02 A/B
PROJECT:				
DRN	NAME	DATE	Rev.	
CHD	PP	8-Feb-11	Dt.	
APPROVED	SSN	8-Feb-11		
	DNB	8-Feb-11		
Crompton Greaves Limited LT Motors Division Ahmednagar			TITLE	
			THERMAL WITHSTAND TIME CURVE SC12/24/600	

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