
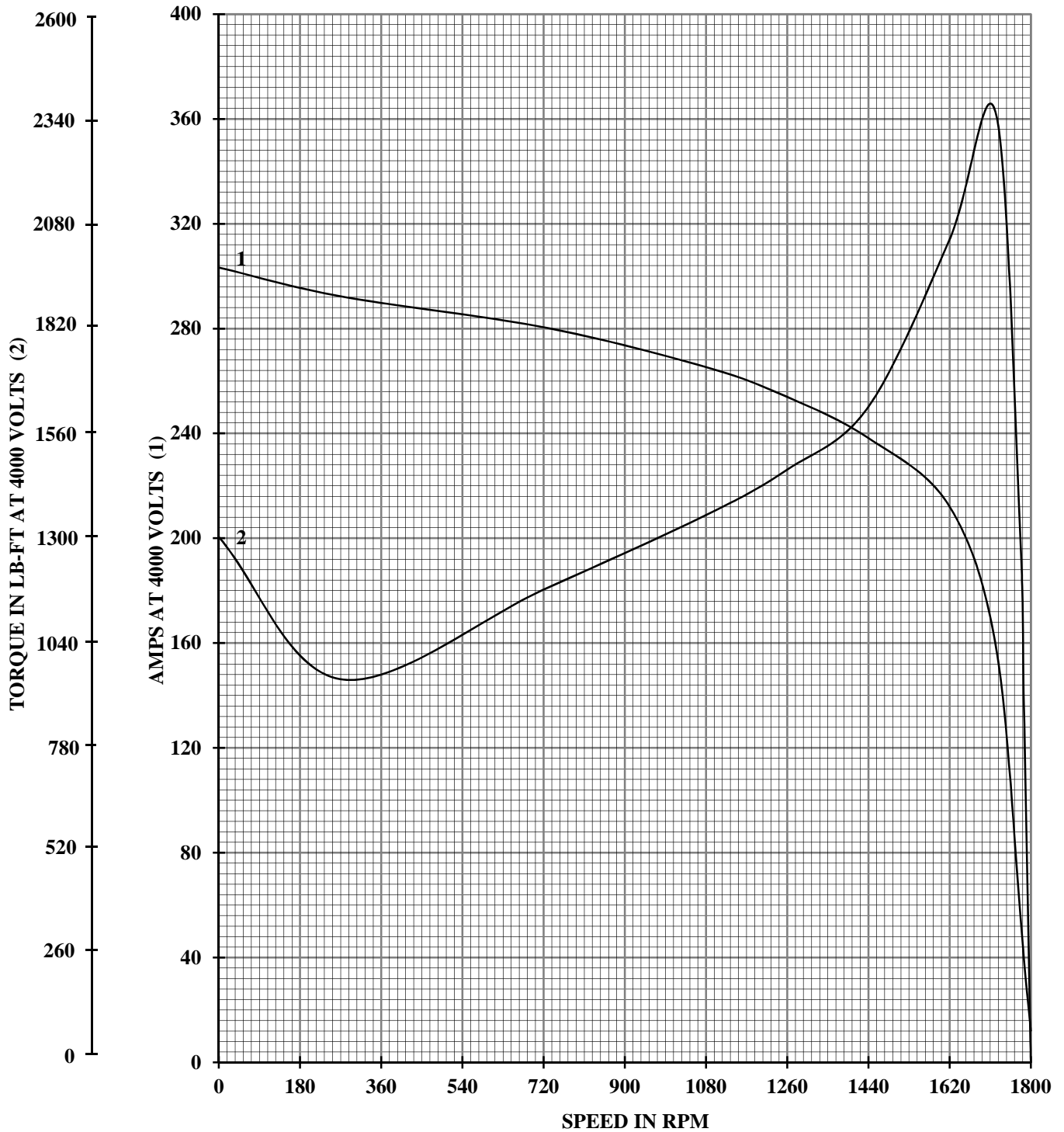


BALDOR -RELIANCE SALES ORDER	FRAME	HP	TYPE	PHASE	HERTZ	RPM
QUOTE	449	300	P	3	60	1785
VOLTS	AMPS	DUTY	AMB°C	INSUL	S.F.	NEMA DESIGN
4000	39.1	CONT	40	F	1.15	---
CODE LETTER	ENCL.	ROTOR WK ² (lb-ft ²)	STATOR RES. @25°C OHMS (BETWEEN LINES)		TYPICAL DATA	
J	---	102.9	0.99072			
PERFORMANCE						
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY	
NO LOAD	0	12.1	1800	5.7	0.0	
1/4	75	15.6	1796	56.8	91.5	
2/4	150	22.2	1793	77.0	94.5	
3/4	225	30.2	1789	84.2	95.1	
4/4	300	39.1	1785	87.1	95.0	
5/4	375	48.5	1780	88.0	94.6	
6/4	450	58.6	1776	88.0	94.0	
SPEED TORQUE						
		RPM	TORQUE % FULL LOAD	TORQUE LB-FT	AMPERES	
LOCKED ROTOR		0	148	1303	303.3	
PULL UP		270	108	950	292.3	
BREAKDOWN		1723	269	2375	158.2	
FULL LOAD		1785	100	882	39.1	
AMPERES SHOWN FOR 4000 VOLT CONNECTION(S). IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE VOLTAGE.						
REVISION 0						
 A MEMBER OF THE ABB GROUP		DR. BY <u>CD</u> CK. BY <u>---</u> APP. BY <u>T. Kelati</u> DATE <u>5/23/2014</u>		A-C MOTOR A44WG4996-R001 PERFORMANCE SH 1 OF 5 ISSUE DATE: 5/23/2014		

B-R S.O.	QUOTE	HERTZ	60	AMB°C	40	CODE LETTER	J
FRAME	449	RPM	1785	INSUL	F	ENCLOSURE	---
HP	300	VOLTS	4000	S.F.	1.15	STATOR RES.@25°C	0.99072
TYPE	P	AMPS	39.1	NEMA DESIGN	---	OHMS (BETWEEN LINES)	
PHASE	3	DUTY	CONT	ROTOR WK ² (lb-ft ²)	102.9	TYPICAL DATA	



AMPERES SHOWN FOR **4000** VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE VOLTAGE.

REVISION 0

BALDOR
A MEMBER OF THE ABB GROUP

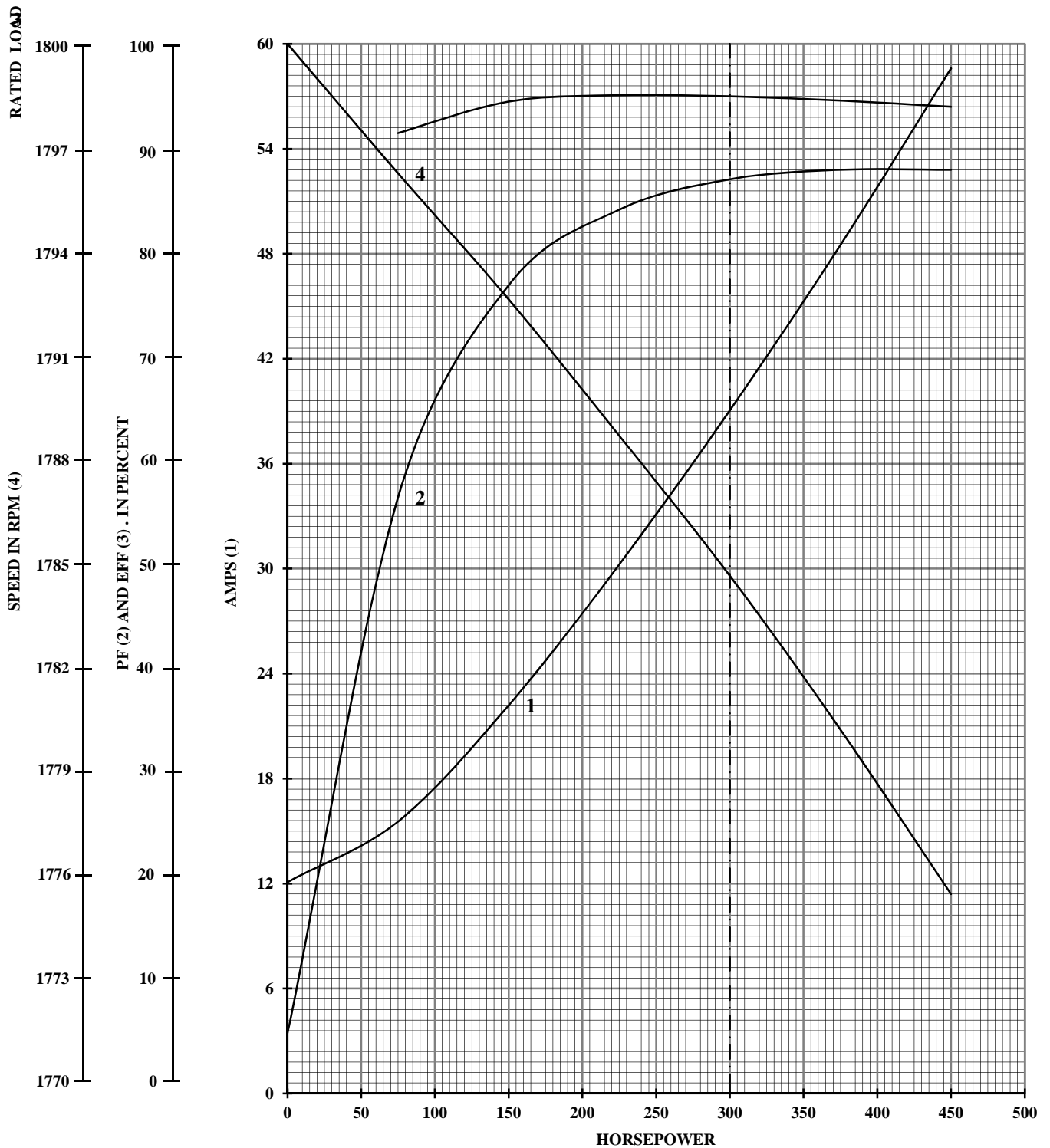
DR. BY CD
CK. BY ---
APP. BY T. Kelati
DATE 5/23/2014

A-C MOTOR
PERFORMANCE
CURVES

A44WG4996-R001

SH 2 OF 5
ISSUE DATE: 5/23/2014

B-R S.O.	QUOTE	HERTZ	60	AMB°C	40	CODE LETTER	J
FRAME	449	RPM	1785	INSUL	F	ENCLOSURE	---
HP	300	VOLTS	4000	S.F.	1.15	STATOR RES. @25°C	0.99072
TYPE	P	AMPS	39.1	NEMA DESIGN	---	OHMS (BETWEEN LINES)	
PHASE	3	DUTY	CONT	ROTOR WK ² (lb-ft ²)	102.9	TYPICAL DATA	



AMPERES SHOWN FOR **4000** VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE VOLTAGE.

REVISION 0

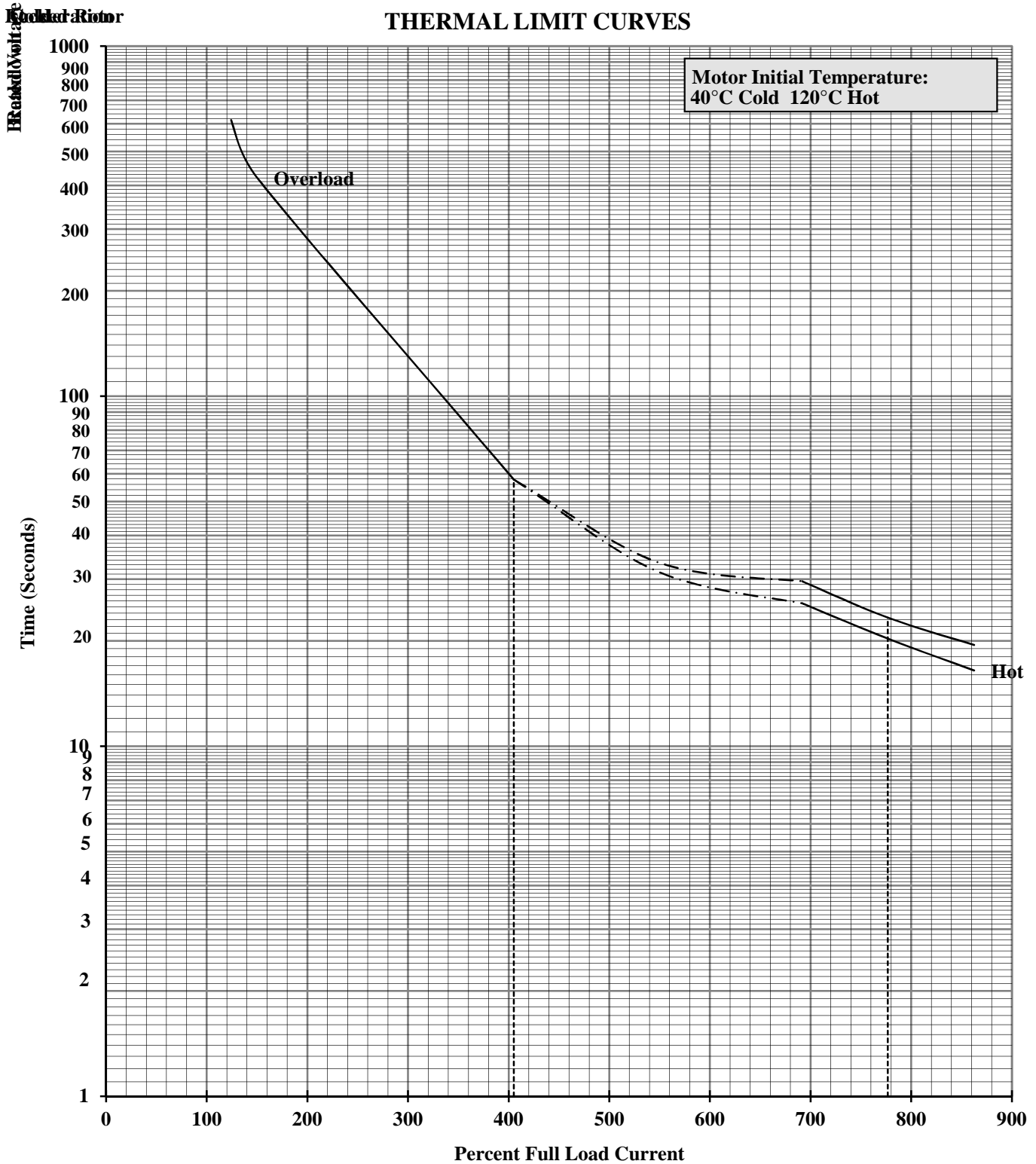


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 CK. BY ---
 APP. BY T. Kelati
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**A-C MOTOR
 PERFORMANCE
 CURVES**

A44WG4996-
 SH 3 OF 5
 ISSUE DATE: 5/23/2014

B-R S.O.	QUOTE	HERTZ	60	AMB°C	40	CODE LETTER	J
FRAME	449	RPM	1785	INSUL	F	ENCLOSURE	---
HP	300	VOLTS	4000	S.F.	1.15	STATOR RES.@25°C	0.99072
TYPE	P	AMPS	39.1	NEMA DESIGN	---	OHMS (BETWEEN LINES)	
PHASE	3	DUTY	CONT	ROTOR WK ² (lb-ft ²)	102.9	TYPICAL DATA	



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**A-C MOTOR
 PERFORMANCE
 CURVES**

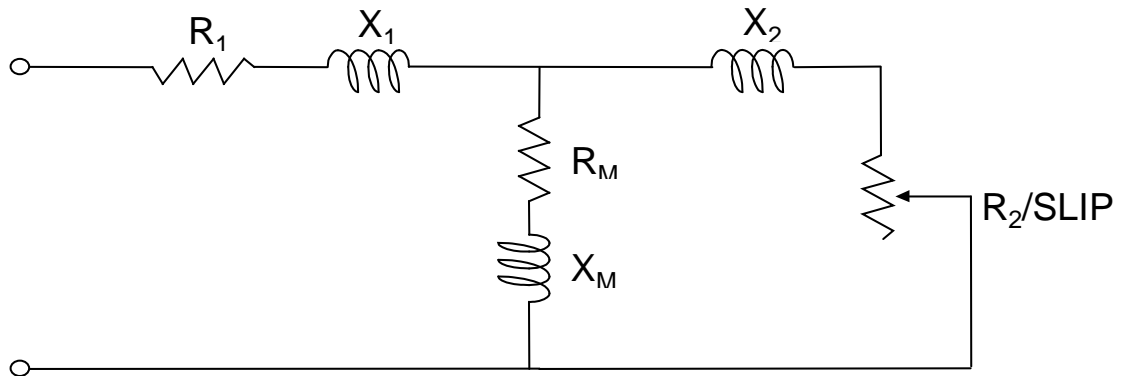
A44WG4996-
 SH 4 OF 5
 ISSUE DATE: 5/23/2014

B-R S.O.	QUOTE	HERTZ	60	AMB°C	40	CODE LETTER	J
FRAME	449	RPM	1785	INSUL	F	ENCLOSURE	---
HP	300	VOLTS	4000	S.F.	1.15	STATOR RES. @25°C	0.99072
TYPE	P	AMPS	39.1	NEMA DESIGN	---	OHMS (BETWEEN LINES)	
PHASE	3	DUTY	CONT	ROTOR WK ² (lb-ft ²)	102.9	TYPICAL DATA	

EQUIVALENT CIRCUIT DATA

(Per Unit, Per Phase)

FULL LOAD				LOCKED ROTOR			
R ₁	0.00893	X ₁	0.07529	R ₁	0.00733	X ₁	0.06921
R ₂	0.00734	X ₂	0.09790	R ₂	0.01836	X ₂	0.03416
R _M	0.09348	X _M	2.60639	R _M	0.32673	X _M	2.24672
BASE OHMS			71.49200	BASE VOLTS			2309
SC Time Constant			0.037 Sec	X" = X _S			0.10337
OC Time Constant			0.977 Sec	X/R Ratio			9.65



Parallel Equivalent			
FL R _M ' pu	72.76431	LR R _M ' pu	15.77603
FL X _M ' pu	2.60974	LR X _M ' pu	2.29423

R₁ = Stator dc resistance X₁ = Stator leakage reactance
 R₂ = Rotor resistance X₂ = Rotor leakage reactance
 R_M = Core loss resistance X_M = Magnetizing reactance
 SC = Short circuit FL = Full load
 OC = Open circuit LR = Locked rotor

X" = X_S = Subtransient reactance

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