

ABB BALDOR RELIANCE III

Customer information packet

EM2540T-CI

40HP, 1185RPM, 3PH, 60HZ, 364T, 1458M, OPEN, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	DP
Frame	364T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	40.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CURUSEEV CSA EEV CCSAUSEEV CCSA US
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	49.400 A @ 460.0 V 98.800 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.1 %
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	49.4 a
Insulation Class	F
Inverter Code	Not Inverter
IP Rating	NONE

Part Detail

Revision	N
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A36WG0752
Layout	617428-115
Eff. date	09-04-2024
CD Diagram	416820-002
Poles	06
Leads	3#4,6#6
Proprietary	False
Created date	10-19-2010

KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Motor Lead Quantity/Wire Size	3 @ 4 AWG
Motor Standards	NEMA
Motor Type	A36062M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	29.70 IN
Power Factor	81
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.15
Shaft Diameter	2.374 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1190 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP2349L															
SPEC NO.	P36G3402			CAT.NO.		EM2540T-CI				FRAME	364T				
HP	40	VOLTS	230/460		PHASE	3	DESIGN	B	TYPE	P					
RPM	1190	AMPS	98.8/49.4		HZ	60	AMB	40	SF	1.15					
DRIVE END BEARING	65BC03J30X			DUTY	CONT	INSUL.CLASS		F							
OPP D.E. BEARING	65BC03J30X			ENCL	DP	CODE	G								
SER.NO.				POWER FACTOR		80.5		NEMA-NOM-EFFICIENCY				94.1			
						MAX CORR KVAR		12.0		GUARANTEED EFFICIENCY		93.6			
						NEMA NOM/CSA QUOTED EFF									
						MOTOR WEIGHT									

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS		
	364VPZ	40	P	3/60	1190	230/460		
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.		
98.8/49.4	CONT	40/F	1.15	B	G	DP		
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)				
491378	418141-71JE	---	---	.0380/.152				
PERFORMANCE								
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY			
NO LOAD	0	17.8	1200	5.94	0			
1/4	10.0	21.6	1197	48.6	89.2			
2/4	20.0	29.0	1194	69.3	93.2			
3/4	30.0	38.5	1191	77.4	94.1			
4/4	40.0	49.4	1188	80.6	94.1			
5/4	50.0	61.0	1184	82.0	93.6			
SPEED TORQUE								
		RPM	TORQUE % FULL LOAD	TORQUE LB. - FT.	AMPERES			
LOCKED ROTOR		0	158	280	290			
PULL UP		480	136	241	270			
BREAKDOWN		1135	243	430	167			
FULL LOAD		1188	100	177	49.4			
AMPERES SHOWN FOR 460. VOLT CONNECTION. IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE REMARKS: TYPICAL DATA XE MOTOR-NEMA NOM. EFF. 94.1% GUARANTEED MIN. EFF. 93.6%								
		DR. BY	J. J. HARRISON	A-C MOTOR PERFORMANCE DATA				
		CK. BY	W. L. SMITH					
		APP. BY	W. L. SMITH					
		DATE	04/15/10					
				A36WG0752-R001 ISSUE DATE 04/16/18				

REL S.O.

 RPM **1190**

 S.F. **1.15**

 ROTOR **418141-71JE**

 FRAME **364VPZ**

 VOLTS **230/460**

 NEMA DESIGN **B**

 TEST S.O. **TYPICAL DATA**

 HP **40**

 AMPS **98.8/49.4**

 CODE LETTER **G**

 TEST DATE **---**

 TYPE **P**

 DUTY **CONT**

 ENCLOSURE **DP**

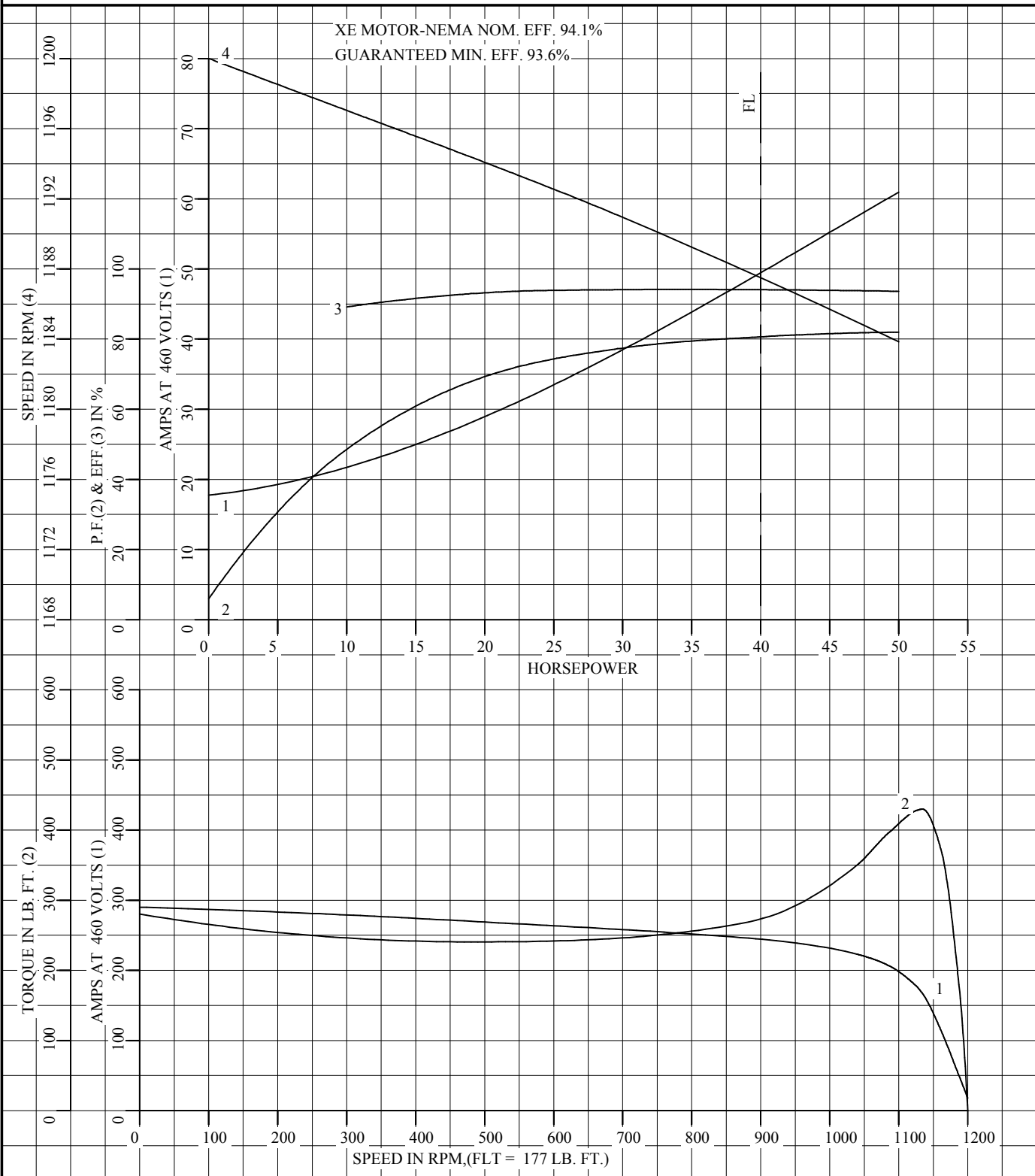
 STATOR RES. @ 25 °C **.0380/.152**

 PHASE/HERTZ **3/60**

 AMB °C/INSUL **40/F**

 E/S **491378**

OHMS (BETWEEN LINES)



AMPERES SHOWN FOR 460 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

BALDOR
A MEMBER OF THE ABB GROUP

DR. BY J.J.HARRISON
CK. BY W.L.SMITH
APP. BY W.L.SMITH
DATE 04/15/10

**A-C MOTOR
PERFORMANCE
CURVES**

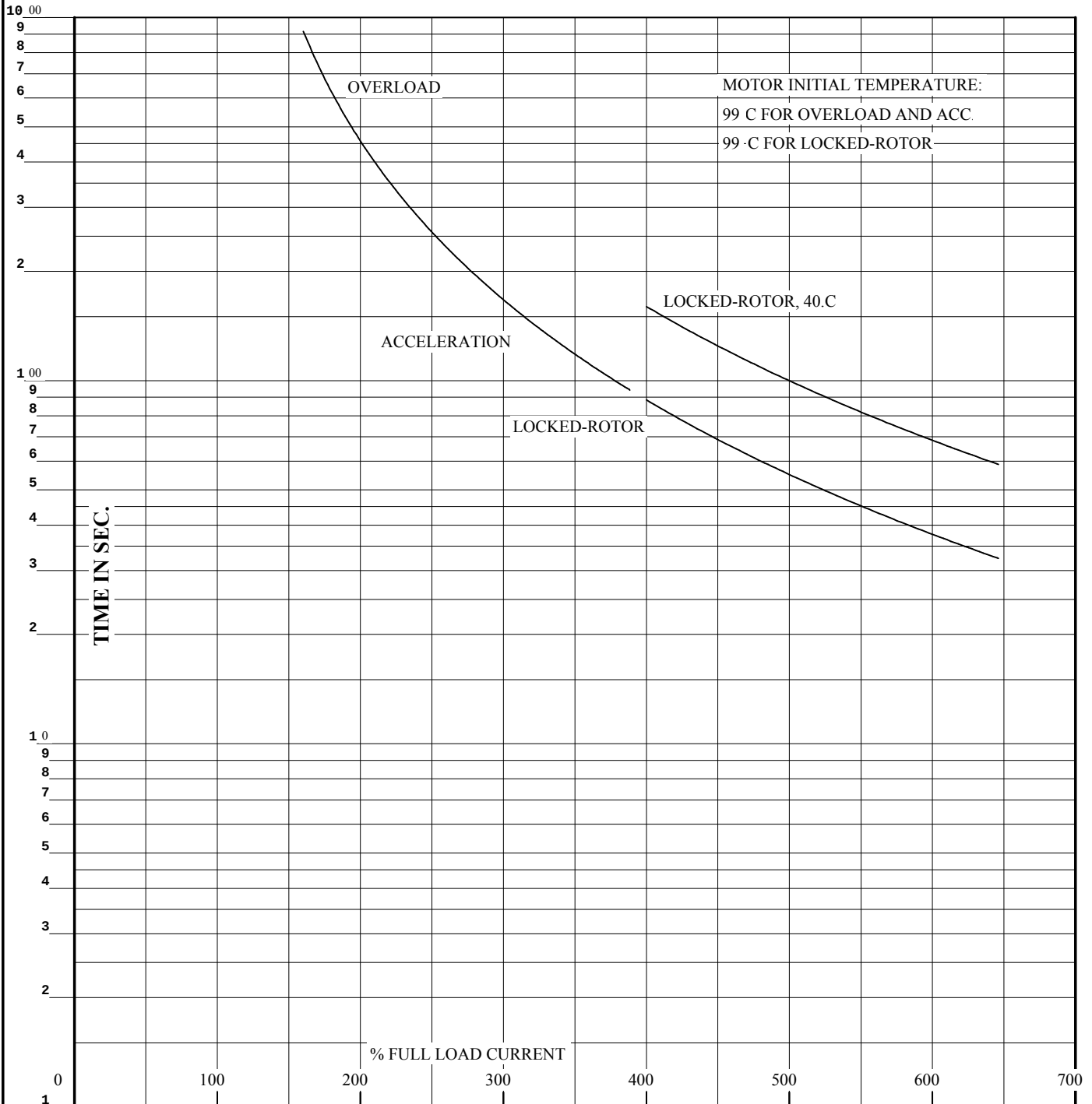
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REL. S.O.
 FRAME **364VPZ**
 HP **40**
 TYPE **P**
 PHASE/HERTZ **3/60**

 RPM **1190**
 VOLTS **230/460**
 AMPS **98.8/49.4**
 DUTY **CONT**
 AMB °C/INSUL **40/F**

 S.F. **1.15**
 NEMA DESIGN **B**
 CODE LETTER **G**
 ENCLOSURE **DP**
 E/S **491378**

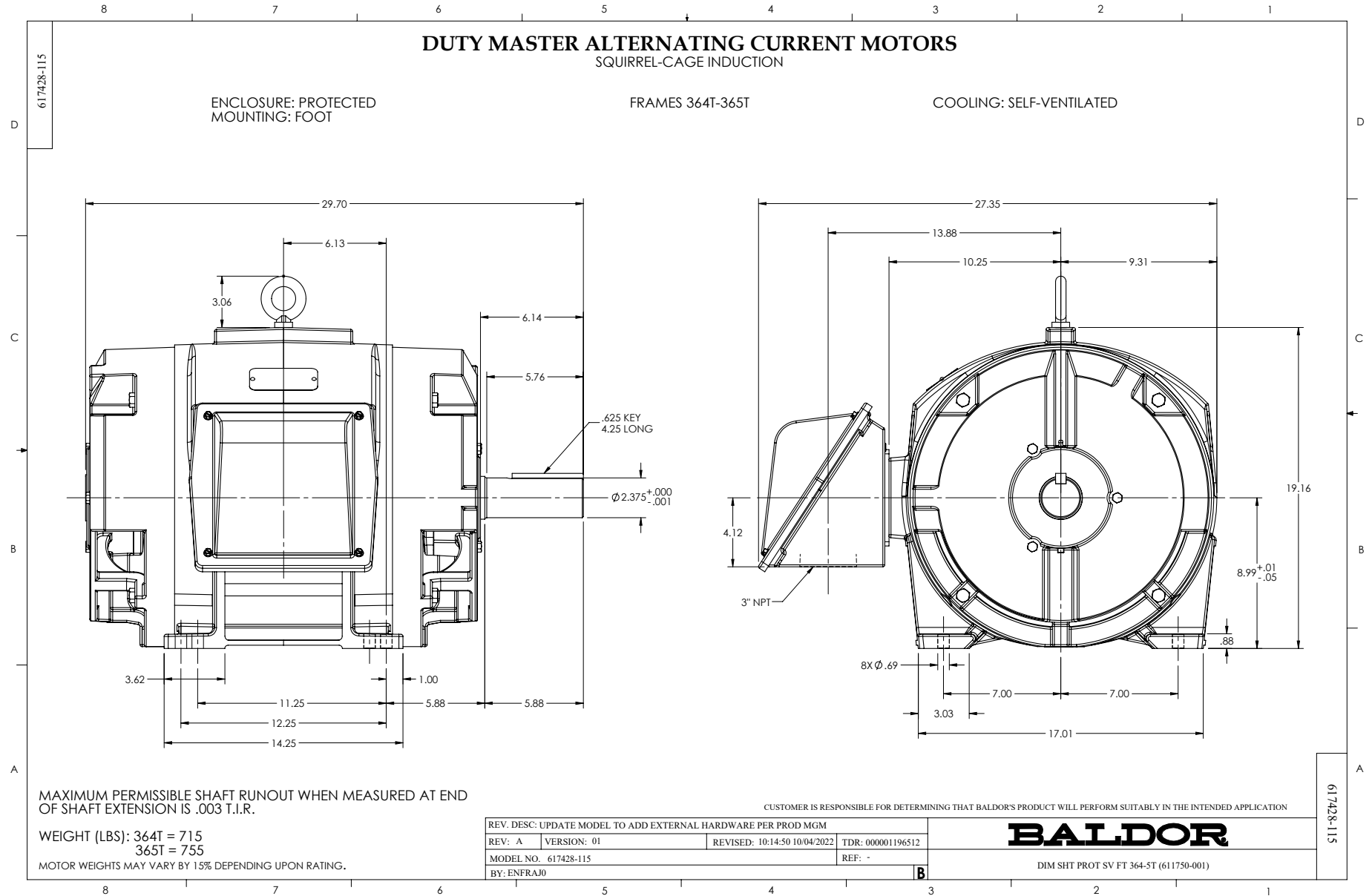
 ROTOR **418141-71JE**
 TEST S.O. **TYPICAL DATA**
 TEST DATE **---**
 STATOR RES. @ 25 °C **.0380/.152**
 OHMS (BETWEEN LINES)

THERMAL LIMIT CURVE

 REMARKS:
 XE MOTOR-NEMA NOM. EFF. 94.1%
 GUARANTEED MIN. EFF. 93.6%

 AMPERES SHOWN FOR 460 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE
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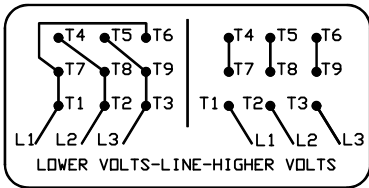
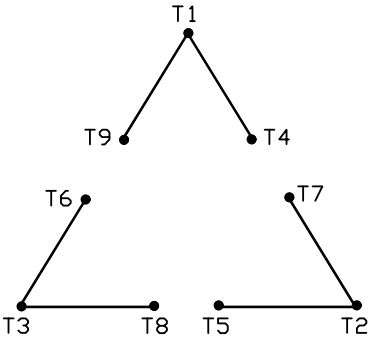
 DR. BY J.J.HARRISON
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**A-C MOTOR
PERFORMANCE
CURVES**
A36WG0752-R001

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416820-002

A-C MOTOR
CONNECTION DIAGRAM
STANDARD 9 LEAD DELTA-CONNECTED



(N. P. 1575-B)

416820-002

REV. DESC: ADJUST TEXT DARKNESS		
REV. LTR: B	VERSION: 02	TDR: 000001285318
FILE: \RAG\00022\453	REVISED: 09:36:26 09/24/2026	BY: USJOSUL
MTL: -	© □	



CONN DIAG - STANDARD 9 LEAD, DELTA-CONNECTED
SH1 of 1