

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											

Parts List

Part number	Description	Quantity
SA208357	SA P36G3402	1.000 ea
RA195622	RA P36G3402	1.000 ea
000613006PU	N/P (RELEASE QTY 10,000) UL CSA LABEL	1.000 ea
000692000VD	LABEL WARNING	1.000 ea
NP2349L	SUPER-E ,SS, CURUS EEV, CC, LASER	1.000 ea
421948032	LABEL, MYLAR	1.000 ea
004824015A	GREASE POLYREX EM	0.544 lb
032018024CK	HHCS 3/8-16X3 PLTD.	3.000 ea
032018028DK	HHCS 1/2-13X3-1/2 PLTD.	4.000 ea
032376004JB	RHMS 10-32X1/2PLTD-360	3.000 ea
034001009AB	WSHR #10 PLATED-360	3.000 ea
034017009AB	LCKW NO.10 PLATED-360	3.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
034690002AB	PPLG 1/4" PLTD.	1.000 ea
078556001A	BAFFL 360 SUB PAINT	1.000 ea
085920052A	BRKT 360 085920051WCC KB	1.000 ea
410700004F	WSHR	1.000 ea
032018024CK	HHCS 3/8-16X3 PLTD.	3.000 ea
032018028DK	HHCS 1/2-13X3-1/2 PLTD.	4.000 ea
032376004JB	RHMS 10-32X1/2PLTD-360	3.000 ea
034001009AB	WSHR #10 PLATED-360	3.000 ea
034017009AB	LCKW NO.10 PLATED-360	3.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
034690002AB	PPLG 1/4" PLTD.	1.000 ea
078556001A	BAFFL 360 SUB PAINT	1.000 ea
085920052A	BRKT 360 085920051WCC KB	1.000 ea
032018010CK	HHCS 3/8-16X1-1/4 PLTD. 032018010CR	4.000 ea
033512006LB	HHTTS 1/4-20X3/4 PLTD.	4.000 ea
048897010DG	PLUG,ODE BRKT - 360	1.000 ea
065776000C	GASKET,MAIN CBOX, 320-400	1.000 ea
067053000B	GASK 320-400	1.000 ea

076708000BB	CONDUIT BOX-360	1.000 ea
076709000A	C/B Cover - 360	1.000 ea
415000115H	T/LUG #2AWG-4/0AWG	1.000 ea
MG1025Y17	WILKOFAST, 789.701, SUPER E PEARL GOLD	0.250 ga
033775004EA	DRSCR #6-1/4 304 S.S.	2.000 ea
034180034HA	KEY 5/8X5/8X4-1/4 L	1.000 ea
14PA1000	PACKAGING 314 GROUP COMBINED PRINT	1.000 ea
032018005DL	1/2-13 X 5/8 SILICON BRONZE HHCS	1.000 ea

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 CK. BY W. L. SMITH APP. BY W. L. SMITH DATE 04/15/10		A-C MOTOR PERFORMANCE DATA 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**

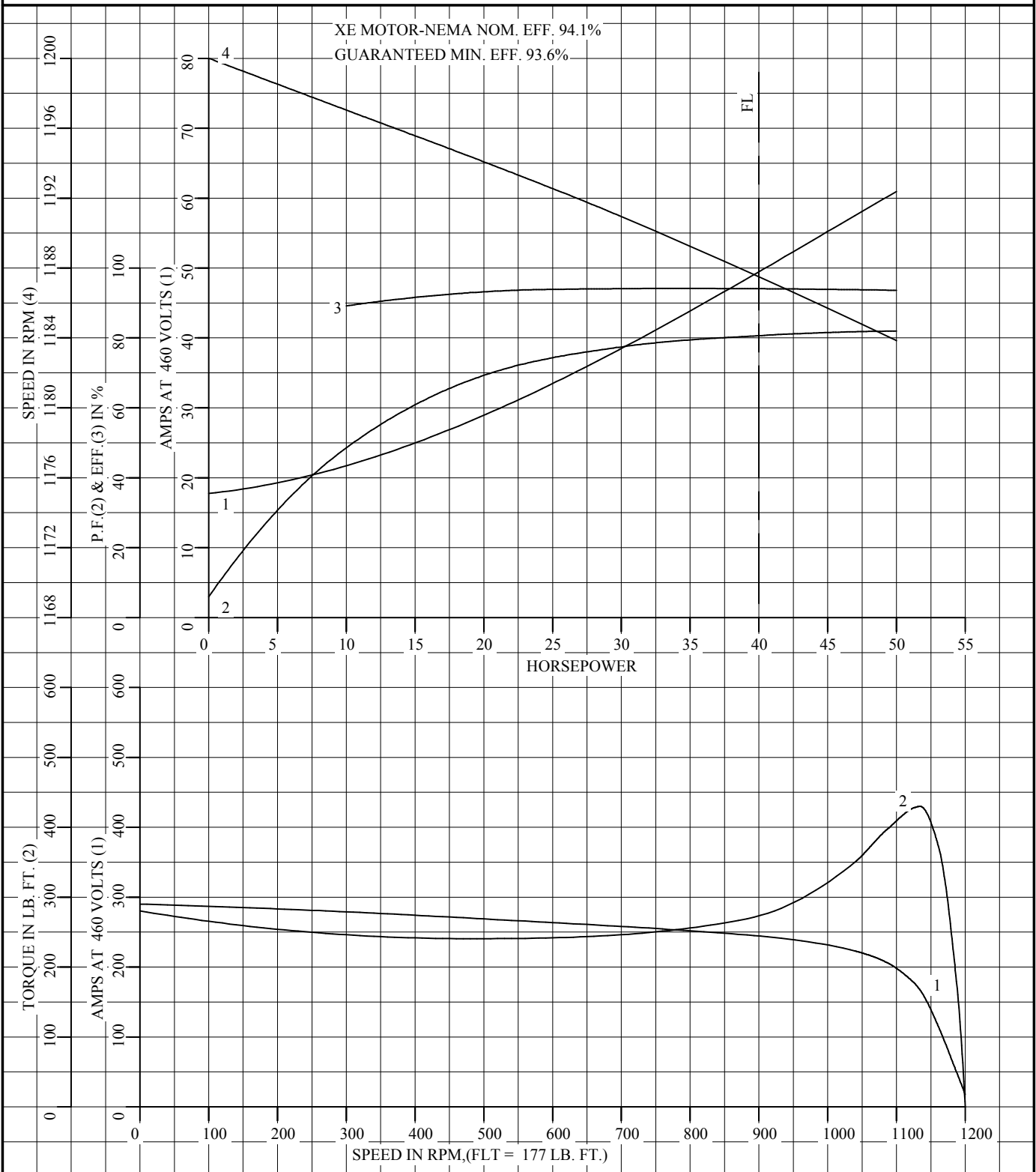
 STATOR RES. @ 25 °C **.0380/.152**

 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

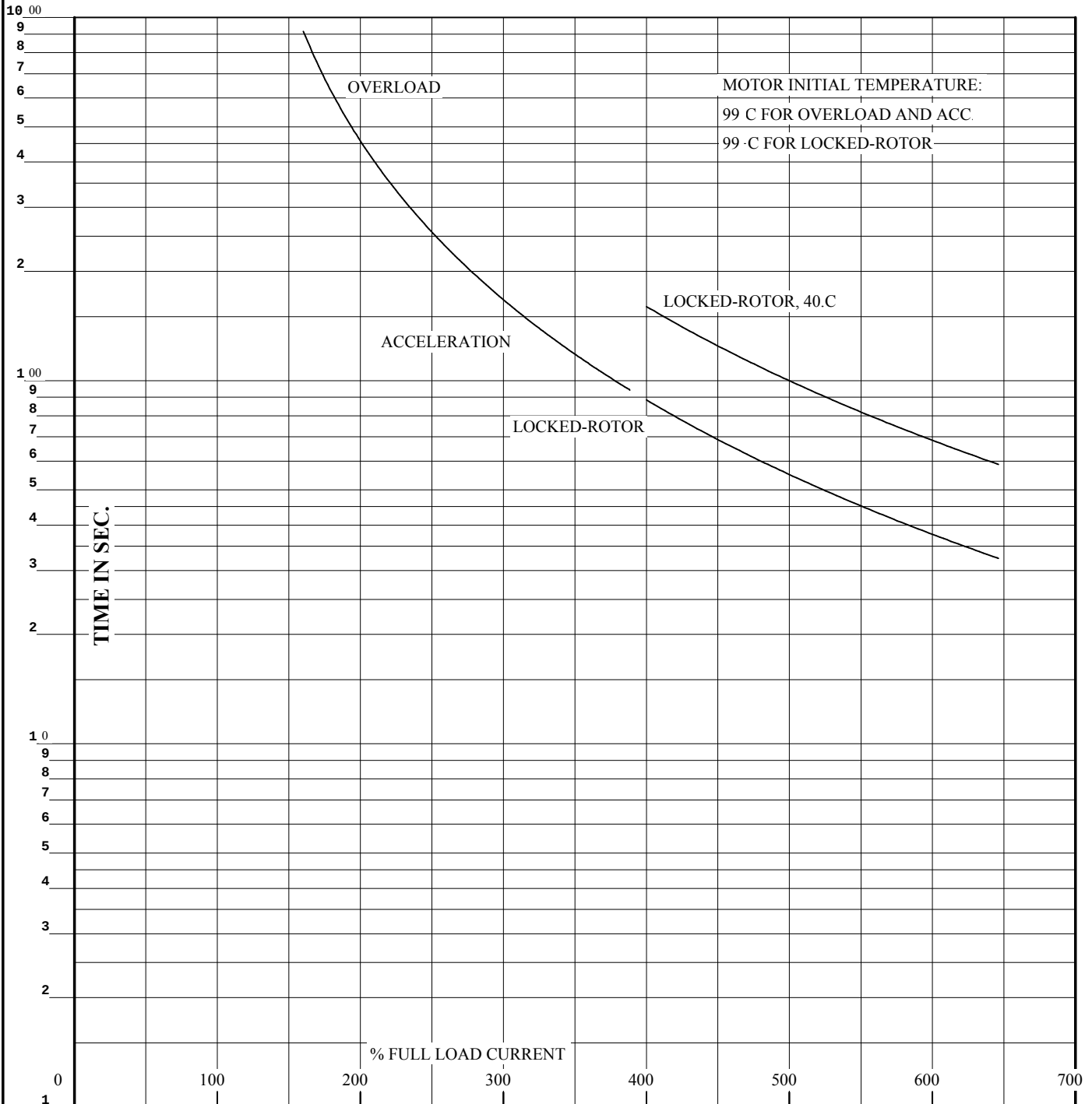
**A-C MOTOR
PERFORMANCE
CURVES**

A36WG0752-R001
ISSUE DATE 04/16/18

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**

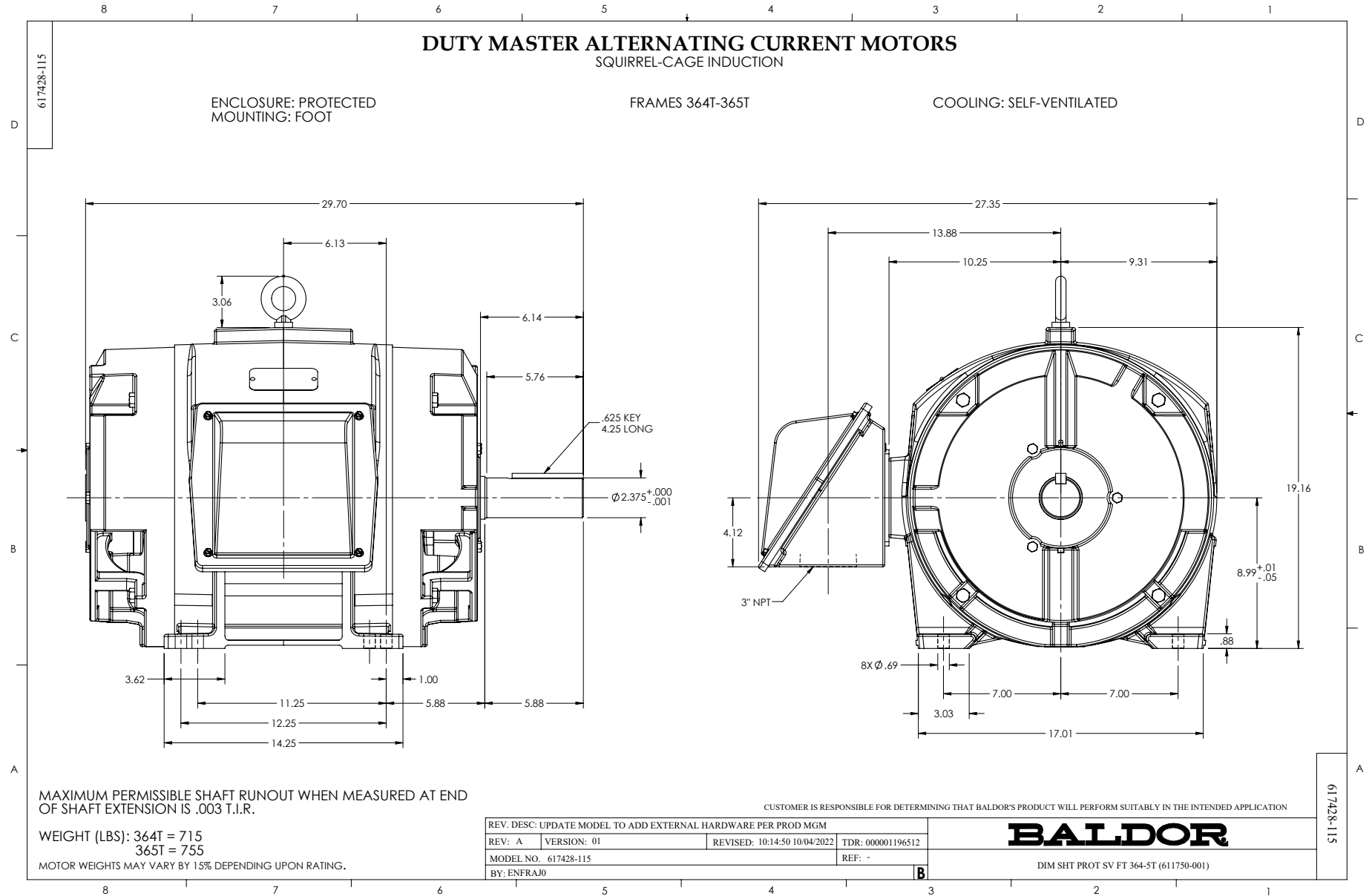
 S.F. **1.15**
 NEMA DESIGN **B**
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 ENCLOSURE **DP**
 E/S **491378**

 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%

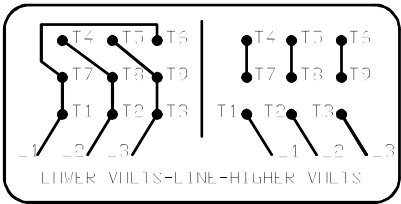
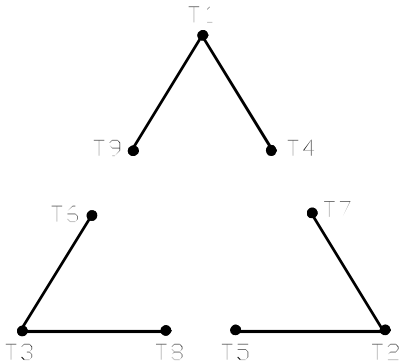
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 DR. BY J.J.HARRISON
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**A-C MOTOR
PERFORMANCE
CURVES**
A36WG0752-R001
 ISSUE DATE 04/16/18 Page 9 of 11



416820-002

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



(N.P. 1575-B)

REV. DESC: FONT CHANGE FOR PDF SEARCHABLE		
REV. LTR: A	VERSION: 01	TDR: 000001009382
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CONN DIAG — STANDARD 9 LEAD, DELTA-CONNECTED
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