



Customer information packet

EM2555T-CI

100HP, 1785RPM, 3PH, 60HZ, 404T, ODP, FOOT,
Class - None
Division - Not Applicable

Specifications

Enclosure	DP
Frame	404T
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	100.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CCSA US CCSAUSEEV CSA EEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	115.000 A @ 460.0 V 230.000 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.4 %
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	115.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G
Lifting Lugs	Standard Lifting Lugs

Part detail

Revision	Q
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A40WG0707
Layout	617428-119
Eff. date	09-04-2024
CD Diagram	416820-002
Poles	04
Leads	3#2,6#4
Proprietary	False
Created date	02-03-2011

Motor Lead Quantity/Wire Size	3 @ 2 AWG
Motor Standards	NEMA
Motor Type	A40052M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	34.00 IN
Power Factor	85
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.15
Shaft Diameter	2.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1785 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

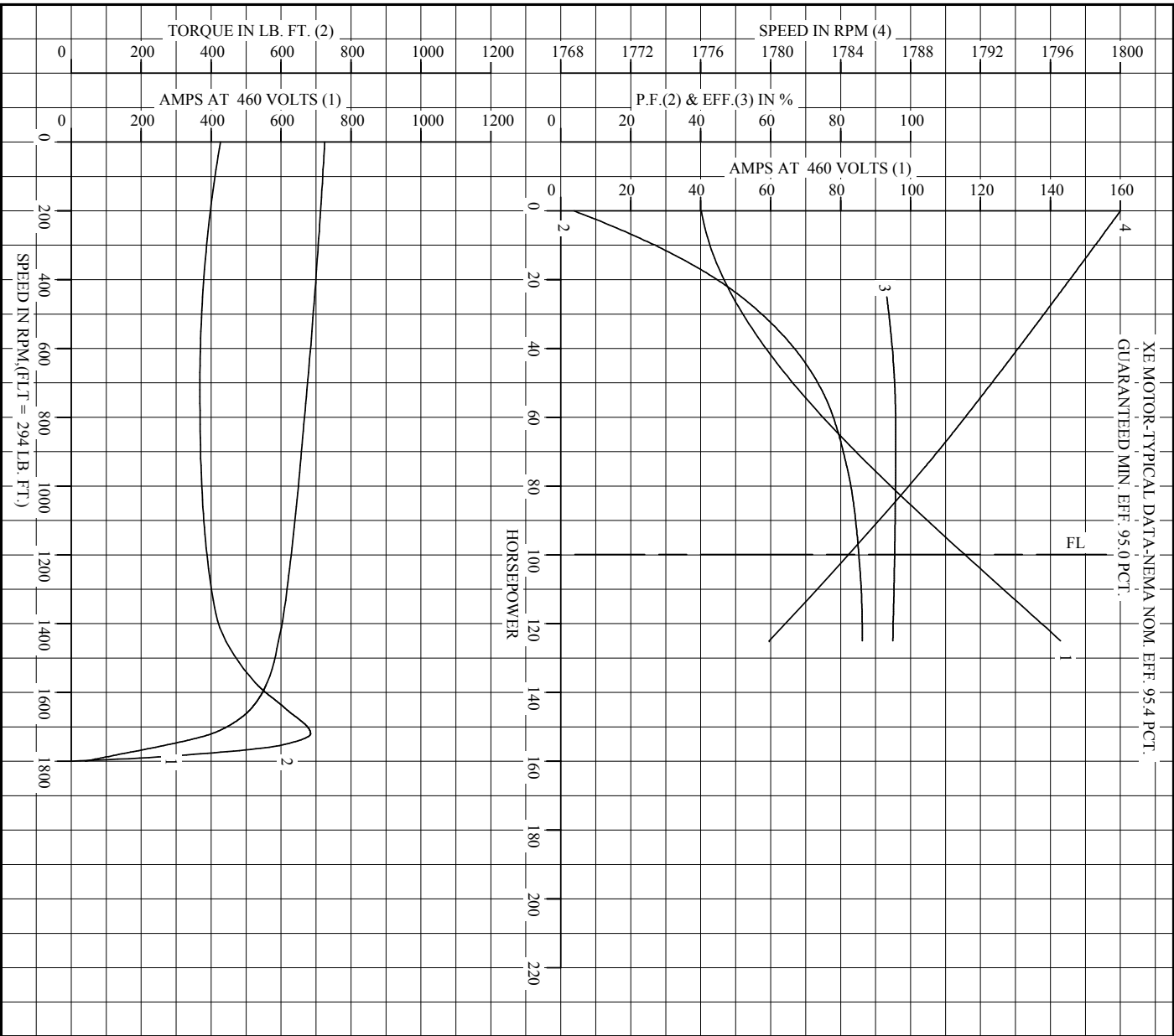
Nameplate

NP2349L

SPEC NO.	P40G297			CAT.NO.	EM2555T-CI					FRAME	404T
HP	100	VOLTS	230/460		PHASE	3	DESIGN	B	TYPE	P	
RPM	1785	AMPS	230/115		HZ	60	AMB	40	SF	1.15	
DRIVE END BEARING	80BC03J30X		DUTY	CONT	INSUL.CLASS			F			
OPP D.E. BEARING	80BC03J30X		ENCL	DP	CODE	G					
SER.NO.				POWER FACTOR	85	NEMA-NOM-EFFICIENCY				95.4	
						MAX CORR KVAR	20.0	GUARANTEED EFFICIENCY		95.0	
						NEMA NOM/CSA QUOTED EFF					
						MOTOR WEIGHT					

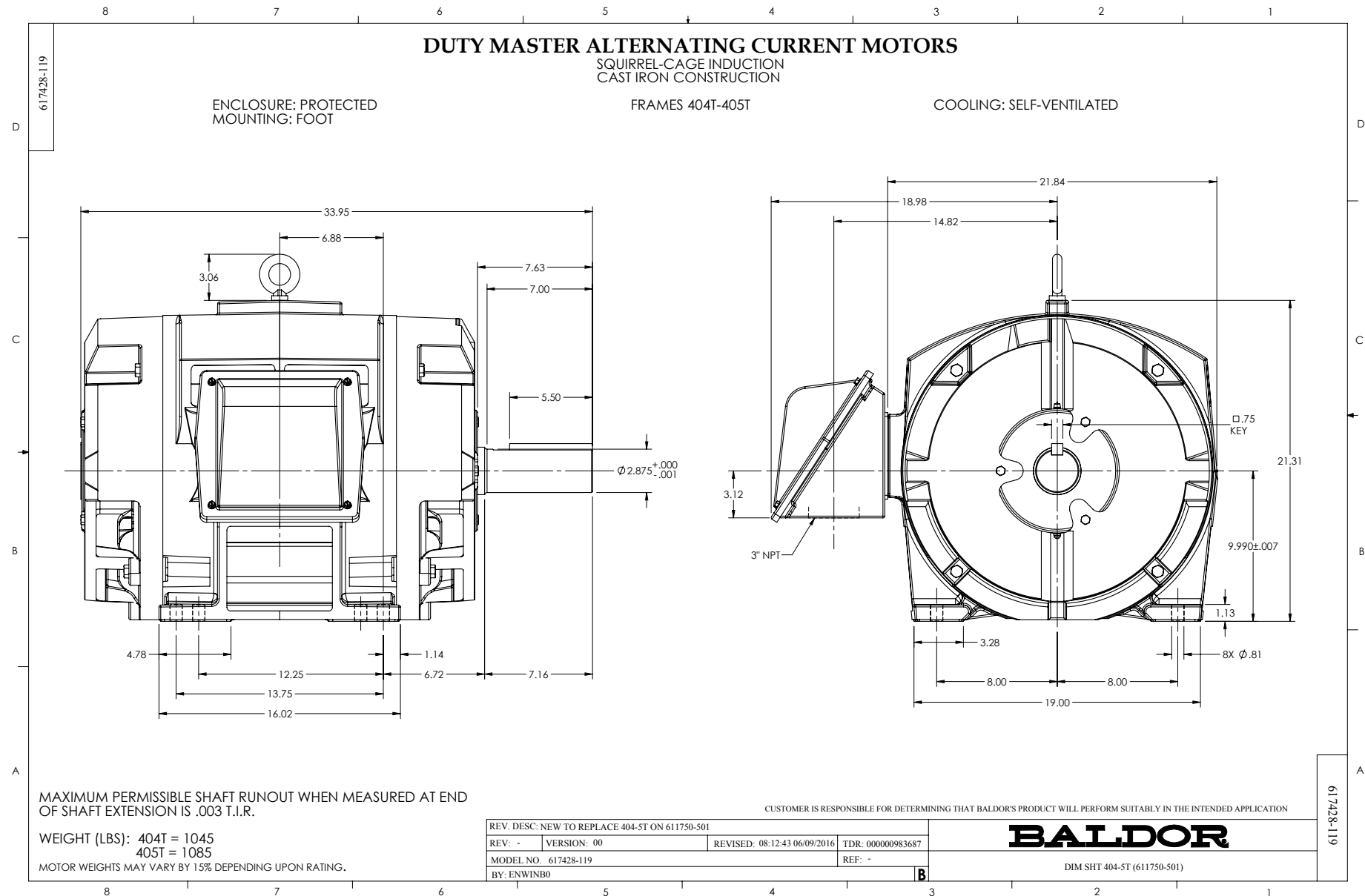
REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	404T	100	P	3/60	1785	230/460
Amps	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
230/115	CONT	40/B	1.15	B	G	PROT
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)		
595948	418142-31-NE	---	---	.0132/.0531		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY	
NO LOAD	0	40.3	1800	3.80	0	
1/4	25.0	48.7	1796	51.7	93.2	
2/4	50.0	66.7	1793	73.5	95.4	
3/4	74.9	89.5	1789	81.9	95.7	
4/4	99.9	115	1785	85.2	95.4	
5/4	125	143	1780	86.2	94.9	
SPEED TORQUE						
	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES		
LOCKED ROTOR	0	145	427	725		
PULL UP	700	125	368	676		
BREAKDOWN	1720	233	685	401		
FULL LOAD	1785	100	294	115		
AMPERES SHOWN FOR 460. VOLT CONNECTION. IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE						
REMARKS: XE MOTOR-TYPICAL DATA-NEMA NOM. EFF. 95.4 PCT. GUARANTEED MIN. EFF. 95.0 PCT.						
BALDOR				DR. BY D. M. BYRD CK. BY W. I. SMITH APP. BY D. M. BYRD DATE 04/14/2004		
				A-C MOTOR PERFORMANCE A40WG0707-R001 DATA ISSUE DATE 04/14/20		

REL. S.O.		RPM	1785	S.F.	1.15	ROTOR	418142-31-NE
FRAME	404T	VOLTS	230/460	NEMA DESIGN	B	TEST S.O.	----
HP	100	AMPS	230/115	CODE LETTER	G	TEST DATE	----
TYPE	P	DUTY CONT		ENCLOSURE	PROT	STATOR RES. @ 25 °C	.0132/.0531
PHASE/HERTZ	3/60	AMB °C/INSUL	40/B	E/S	595948	OHMS (BETWEEN LINES)	



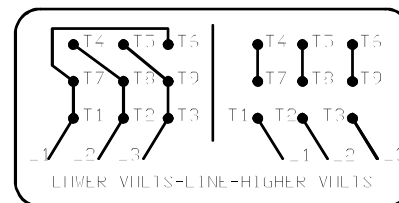
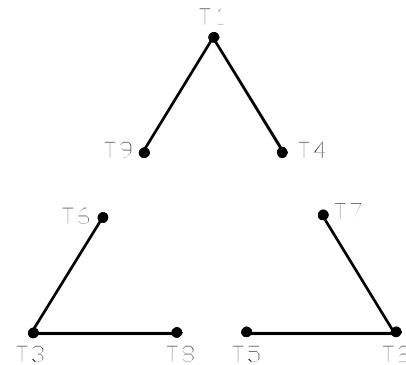
AMPERES SHOWN FOR 460 VOLTS CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

BALDOR		A-C MOTOR	
DR. BY	D.M. BYRD	PERFORMANCE	A40WG0707-R001
CK. BY	W.L. SMITH	CURVES	ISSUE DATE 04/14/2004
APP. BY	D.M. BYRD		
DATE	04/14/2004		



416820-002

A-C MOTOR
CONNECTION DIAGRAM
STARTER 5 LEAD DELTA-CONNECTED



(N. P. 1575-B)

REV. DESC: FONT CHANGE FOR PDF SEARCHABLE		
REV. LTR: A	VERSION: 01	TDR: 000001009382
FILE: \MGA\00000\661	REVISED: 02:46:19 02/13/2020	BY: MGHMTT
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BALDOR - RELIANCE®

CONN DIAG — STANDARD 9 LEAD, DELTA-CONNECTED

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