ABB BALDOR RELIANCE

Customer information packet

EM2555T-CI

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

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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
	CURUSEEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	230.000 A @ 230.0 V
	115.000 A @ 460.0 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

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

Lifting Lugs	Standard Lifting Lugs
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. L. SMITH
APP. BY D. M. BYRD
DATE 04/14/2004

A-C MOTOR PERFORMANCE DATA

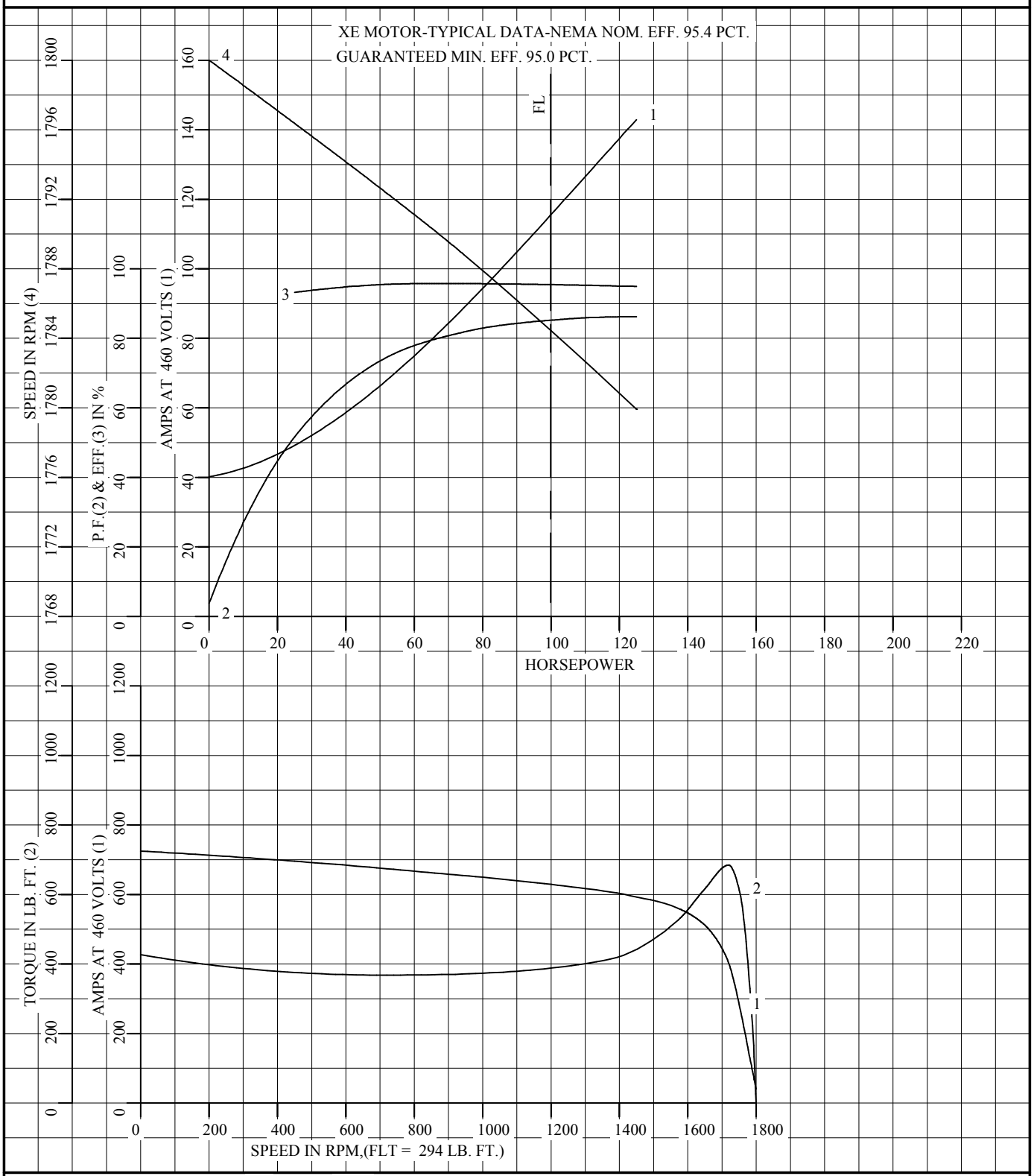
A40WG0707-R001
ISSUE DATE 04/14/20

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ABB BALDOR RELIANCE

CUSTOMER INFORMATION PACKET EM2555T-CI - 100HP, 1785RPM, 3PH, 60HZ, 404T, ODP, FOOT,

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

DR. BY D. M. BYRD
CK. BY W. L. SMITH
APP. BY D. M. BYRD
DATE 04/14/2004

A-C MOTOR PERFORMANCE CURVES A40WG0707-R001 ISSUE DATE 04/14/2004

DUTY MASTER ALTERNATING CURRENT MOTORS

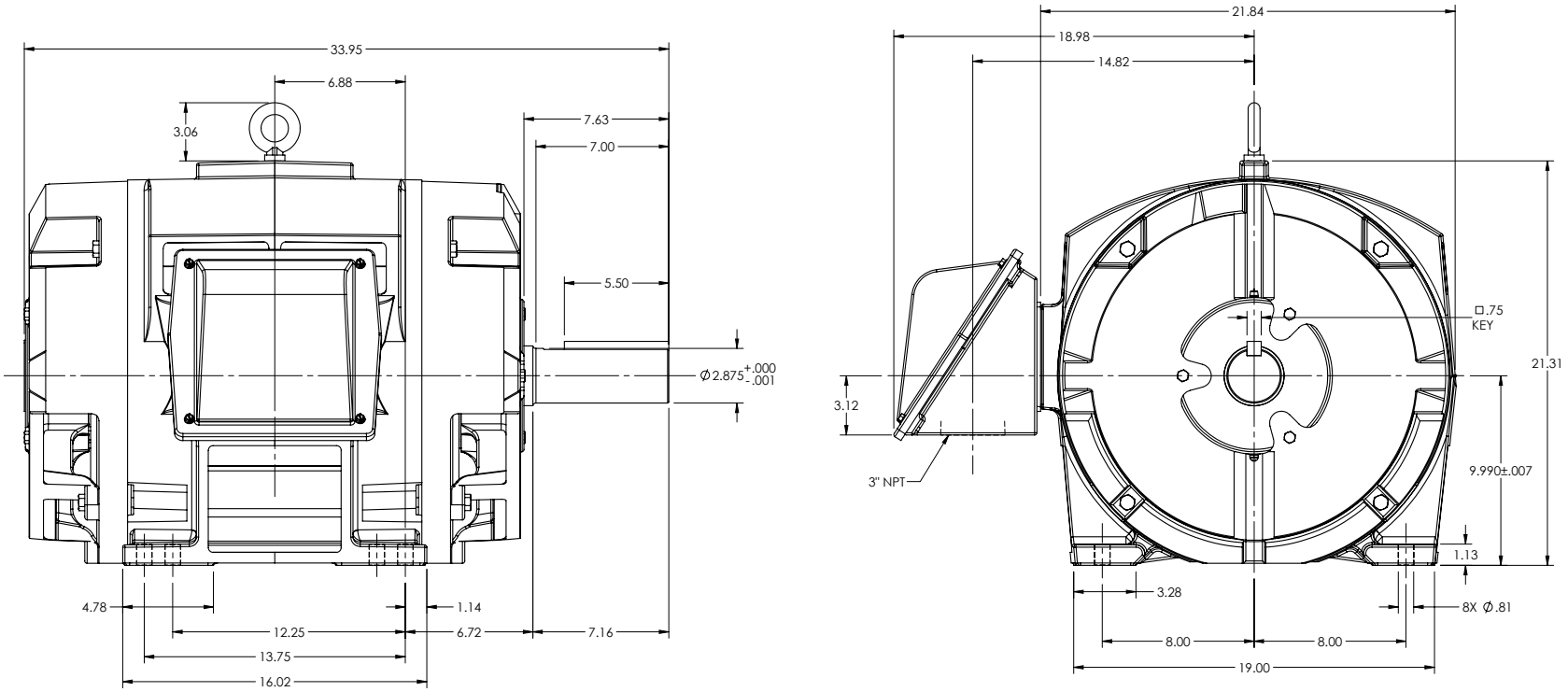
SQUIRREL-CAGE INDUCTION
CAST IRON CONSTRUCTION

617428-119

ENCLOSURE: PROTECTED
MOUNTING: FOOT

FRAMES 404T-405T

COOLING: SELF-VENTILATED



MAXIMUM PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF SHAFT EXTENSION IS .003 T.I.R.

WEIGHT (LBS): 404T = 1045
405T = 1085

MOTOR WEIGHTS MAY VARY BY 15% DEPENDING UPON RATING.

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION

REV. DESC: NEW TO REPLACE 404-5T ON 611750-501			
REV: -	VERSION: 00	REVISED: 08:12:43 06/09/2016	TDR: 000000983687
MODEL NO. 617428-119			REF: -
BY: ENWINB0			B

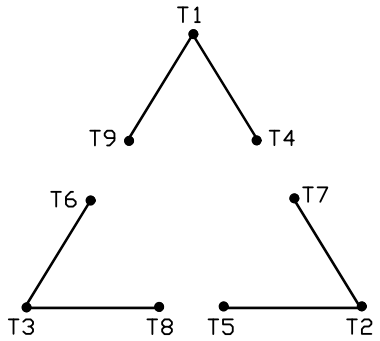
BALDOR

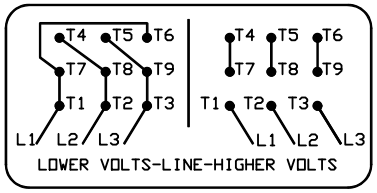
DIM SHT 404-5T (611750-501)

617428-119

416820-002

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





(N. P. 1575-B)

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: -		

ABB

CONN DIAG - STANDARD 9 LEAD, DELTA-CONNECTED

SH1 of 1

416820-002