ABB BALDOR RELIANCE

Customer information packet

EM2552T-4

75HP, 1185RPM, 3PH, 60HZ, 405T, ODP, FOOT,
Class - None
Division - Not Applicable

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Specifications

Enclosure	DP
Frame	405T
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	75.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	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	86.900 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.0 %
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	86.9 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G
Lifting Lugs	No Lifting Lugs
Motor Lead Quantity/Wire Size	6 @ 6 AWG

Part Detail

Revision	S
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A40WG0466
Layout	617428-118
Eff. date	12-19-2025
CD Diagram	416820-008
Poles	06
Leads	6#6
Proprietary	False
Created date	10-19-2010

Motor Standards	NEMA
Motor Type	A40064M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	33.95 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	1185 rpm
Speed Code	Single Speed
Starting Method	Wye Start - Delta Run
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP2349L												
SPEC NO.	P40G302		**CAT.NO.**	EM2552T-4						**FRAME**	405T	
HP	75	**VOLTS**	460	**PHASE**	3	**DESIGN**	B	**TYPE**	P			
RPM	1185	**AMPS**	86.9	**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		
						MAX CORR KVAR	15.0	**GUARANTEED EFFICIENCY**			94.5	
								NEMA NOM/CSA QUOTED EFF				
									MOTOR WEIGHT			

Accessories

Part number	Description	Multiplier
089407053B	C-FACE BRKT 400 089407053WCA	P1
089407054B	D-FLANGE BRKT 400 089407054WCA, D-FLG	P1

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	405T	75	P	3/60	1185	460

AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
86.9	CONT	40/F	1.15	B	G	ODP

E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES.@25 °C OHMS (BETWEEN LINES)
496415	418142-71-EE	---	---	.0860

PERFORMANCE

LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY
NO LOAD	0	31.0	1200	4.11	0
1/4	18.8	37.2	1197	51.1	92.5
2/4	37.5	50.7	1194	73.0	95.0
3/4	56.2	67.7	1190	81.6	95.3
4/4	75.0	86.9	1187	85.1	95.0
5/4	93.8	108	1183	86.2	94.4

SPEED TORQUE

	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES
LOCKED ROTOR	0	165	549	541
PULL UP	400	156	519	509
BREAKDOWN	1132	243	808	302
FULL LOAD	1187	100	332	86.9

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. 95.0 %, GUAR. MIN. EFF. 94.5%

BALDOR

DR. BY J.J.HARRISON
CK. BY W.L.SMITH
APP. BY W.L.SMITH
DATE 09/08/09

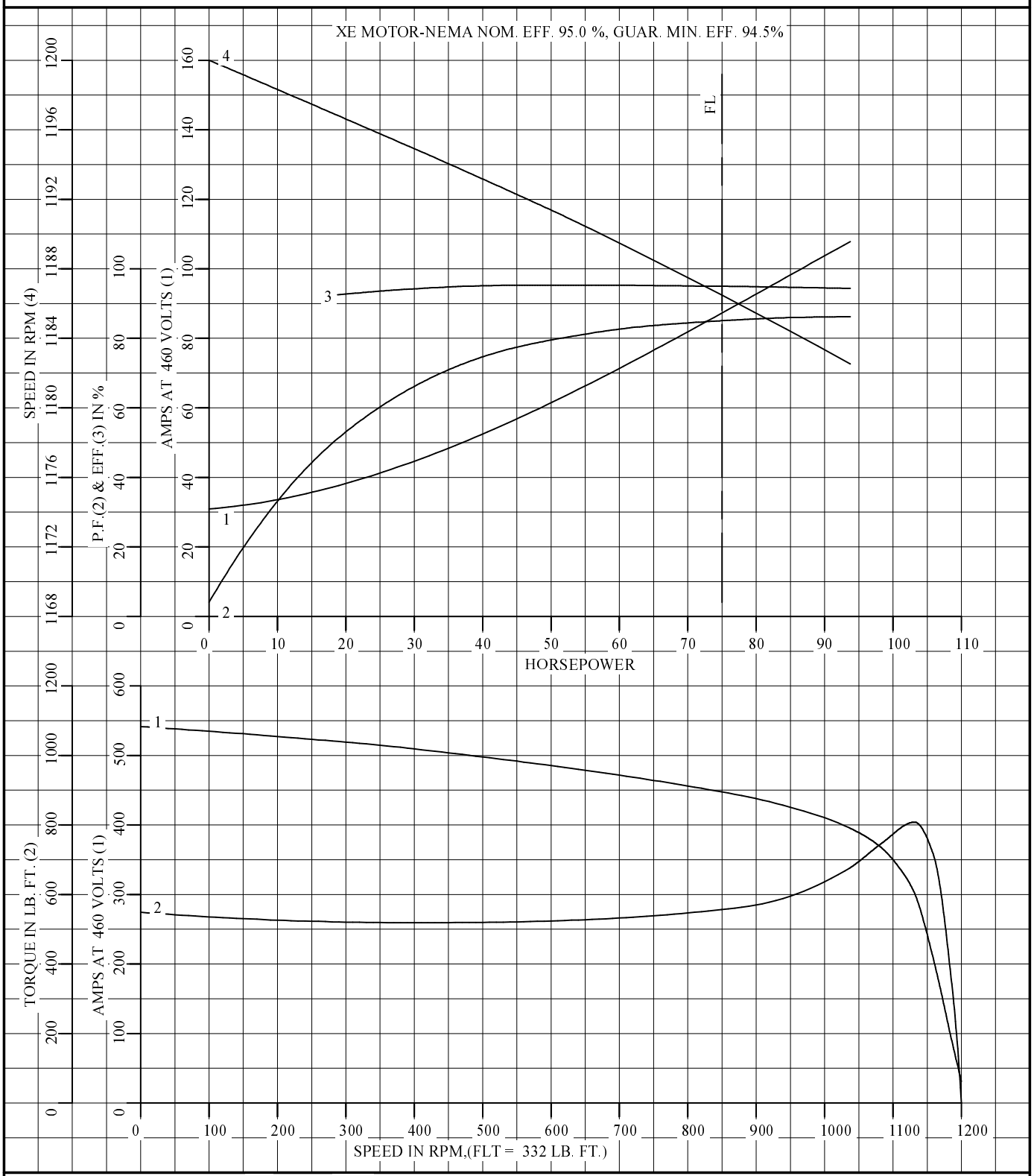
A-C MOTOR PERFORMANCE DATA

A40WG0466-R001
ISSUE DATE 12/15/10

ABB BALDOR RELIANCE

CUSTOMER INFORMATION PACKET EM2552T-4 - 75HP, 1185RPM, 3PH, 60HZ, 405T, ODP, FOOT,

FRAME 405T	RPM 1185	S.F. 1.15	ROTOR 418142-71-EE
HP 75	VOLTS 460	NEMA DESIGN B	TEST S.O. TYPICAL DATA
TYPE P	AMPS 86.9	CODE LETTER G	TEST DATE ---
PHASE/HERTZ 3/60	DUTY CONT	ENCLOSURE ODP	STATOR RES.@ 25 ℃ .0860
	AMB ℃/INSUL 40/F	E/S 496415	OHMS (BETWEEN LINES)



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

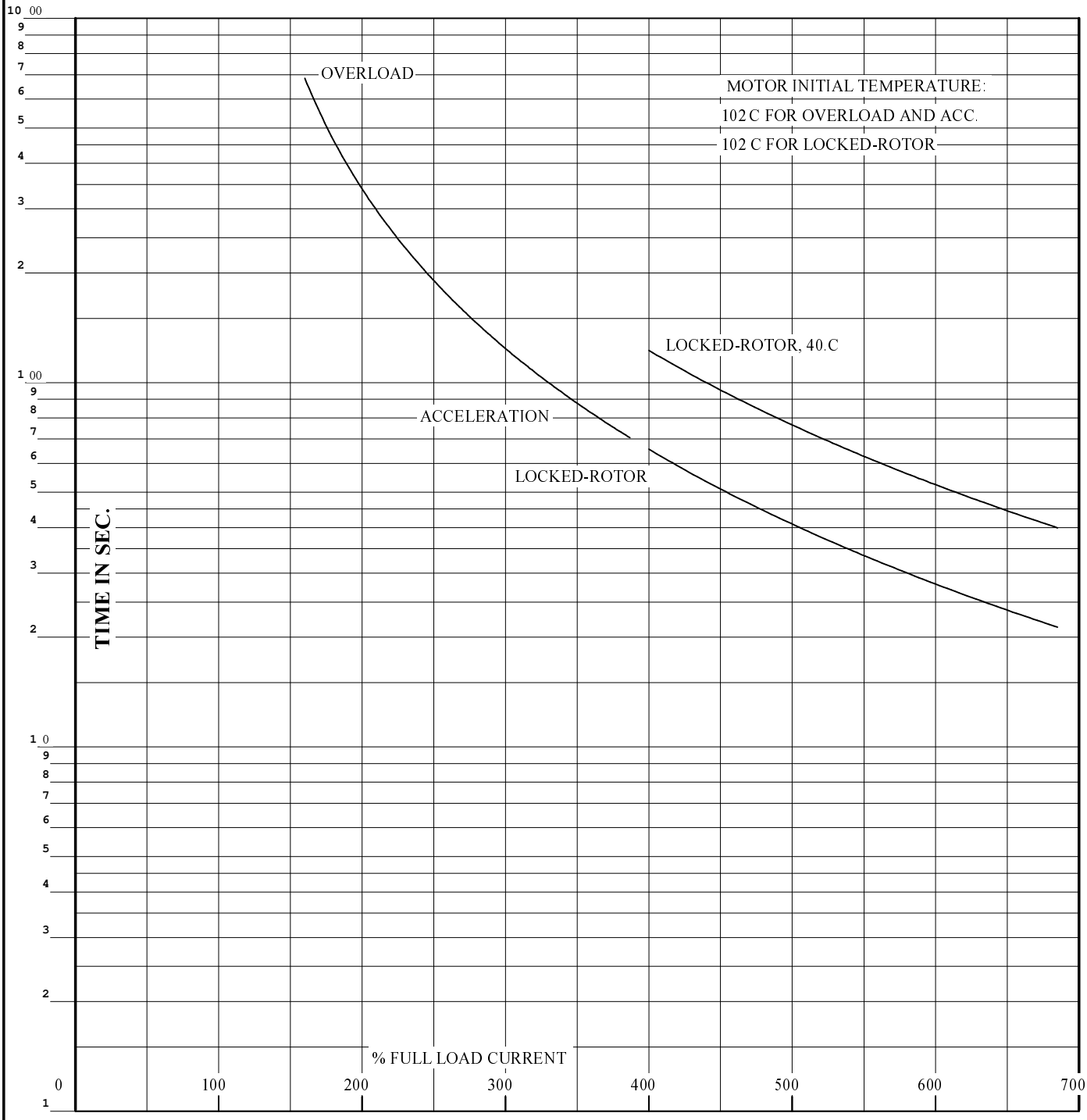
BALDOR

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DATE	09/08/09

A-C MOTOR PERFORMANCE CURVES A40WG0466-R001 ISSUE DATE 12/15/10

Printed on 12/15/10 23:01 @ psecs-motoreng

REL. S.O.	RPM 1185	S.F. 1.15	ROTOR 418142-71-EE
FRAME 405T	VOLTS 460	NEMA DESIGN B	TEST S.O. TYPICAL DATA
HP 75	AMPS 86.9	CODE LETTER G	TEST DATE ---
TYPE P	DUTY CONT	ENCLOSURE ODP	STATOR RES.@ 25 ℃.0860
PHASE/HERTZ 3/60	AMB ℃/INSUL 40/F	E/S 496415	OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

REMARKS: XE MOTOR-NEMA NOM. EFF. 95.0 %, GUAR. MIN. EFF. 94.5%

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

BALDOR

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DATE	09/08/09

A-C MOTOR PERFORMANCE CURVES A40WG0466-R001 ISSUE DATE 12/15/10

DUTY MASTER ALTERNATING CURRENT MOTORS

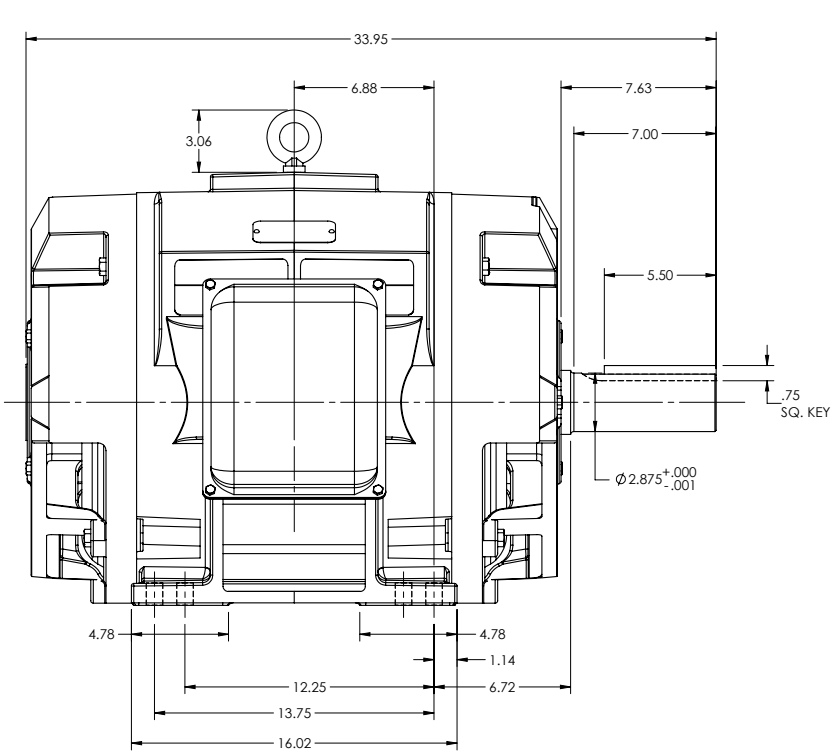
SQUIRREL-CAGE INDUCTION

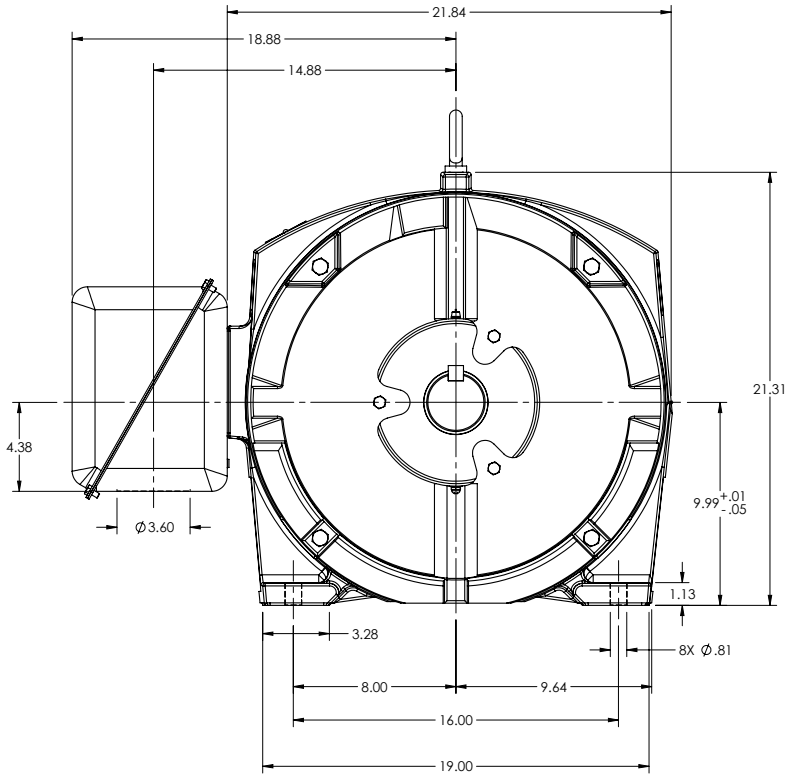
617428-118

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 = 1025
405T = 1065

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 611750-001			
REV: -	VERSION: 00	REVISED: 02:31:35 07/12/2022	TDR: 000001193529
MODEL NO. 617428-118			REF: -
BY: USBUFRA			B

BALDOR

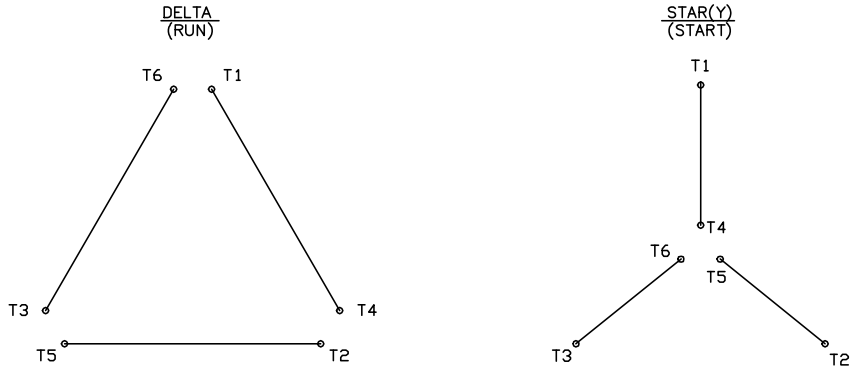
DIM SHT PROT SV FT 404-5T (611750-001)

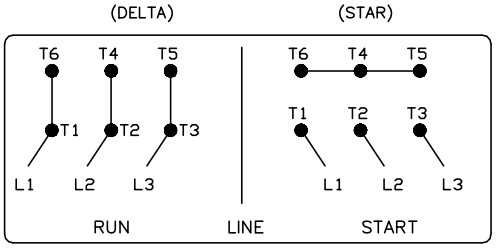
617428-118

416820-008

A-C MOTOR
CONNECTION DIAGRAM

STANDARD 6 LEAD Y START - DELTA RUN





(N. P. 1767-DC)

REV. DESC: ADDED T4 TO Y CONNECT DIAGRAM		
REV. LTR: D	VERSION: 04	TDR: 000000847713
FILE: \RAG\00001\808	REVISED: 10:41:26 04/08/2014	BY: RAGJSS1
MTL: -		

BALDOR

CONNECT DIAGRAM STD 6 LEAD Y START DELTA RUN

SH 1 of 1

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