ABB BALDOR RELIANCE

Customer information packet

EM2554T-4CI

125HP, 3565RPM, 3PH, 60HZ, 404TS, ODP, FOOT,
Class - None
Division - Not Applicable

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Specifications

Enclosure	DP
Frame	404TS
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	125.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 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	143.000 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	143.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	F
Lifting Lugs	No Lifting Lugs
Motor Lead Quantity/Wire Size	3 @ 2 AWG

Part Detail

Revision	K
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A40WG0224
Layout	617428-120
Eff. date	09-04-2024
CD Diagram	416820-036
Poles	02
Leads	3#2
Proprietary	False
Created date	10-19-2010

Motor Standards	NEMA
Motor Type	A40048M
Mounting Arrangement	F1
Number of Poles	2
Power Factor	86
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Service Factor	1.15
Shaft Diameter	2.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3565 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP2349L											
SPEC NO.	P40G295	**CAT.NO.**	EM2554T-4CI						**FRAME**	404TS	
HP	125	**VOLTS**	460	**PHASE**	3	**DESIGN**	B	**TYPE**	P		
RPM	3565	**AMPS**	143	**HZ**	60	**AMB**	40	**SF**	1.15		
DRIVE END BEARING	65BC03J30X	**DUTY**	CONT	**INSUL.CLASS**	F						
OPP D.E. BEARING	65BC03J30X	**ENCL**	DP	**CODE**	F						
SER.NO.		**POWER FACTOR**	86			**NEMA-NOM-EFFICIENCY**	95				
						MAX CORR KVAR	25.0	**GUARANTEED EFFICIENCY**	94.5		
						NEMA NOM/CSA QUOTED EFF					
								MOTOR WEIGHT			

Parts List

Part number	Description	Quantity
SA209223	SA P40G295	1.000 ea
RA196485	RA P40G295	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
032018012AK	HHCS 1/4-20X1-1/2 PLTD.	4.000 ea
032018020DK	HHCS 1/2-13X2-1/2 PLTD. 963746	2.000 ea
032018026DK	HHCS 1/2-13X3-1/4L PLTD.	2.000 ea
032018028CK	HHCS 3/8-16X3-1/2 PLTD.	3.000 ea
034000012AB	WSHR 1/4 STD. PLATED	4.000 ea
034017012AB	LCKW 1/4 STD. PLATED 034017012AF	4.000 ea
034600001AA	BUSH 1/4TO1/8 BLACK	1.000 ea
035000001G	GREASE RELIEF FITTING, ALEMITE 317400	1.000 ea
089407082A	BRKT 400 089407081WCB	1.000 ea
405851012AF	SPACE	4.000 ea
410700004F	WSHR	1.000 ea
702609001A	BAFFL 400 SUB PAINT	1.000 ea
702609001A	BAFFL 400 SUB PAINT	1.000 ea
405851012AF	SPACE	4.000 ea
034600001AA	BUSH 1/4TO1/8 BLACK	1.000 ea
035000001G	GREASE RELIEF FITTING, ALEMITE 317400	1.000 ea
089407082A	BRKT 400 089407081WCB	1.000 ea
034000012AB	WSHR 1/4 STD. PLATED	4.000 ea
034017012AB	LCKW 1/4 STD. PLATED 034017012AF	4.000 ea
032018028CK	HHCS 3/8-16X3-1/2 PLTD.	3.000 ea
032018026DK	HHCS 1/2-13X3-1/4L PLTD.	2.000 ea
032018020DK	HHCS 1/2-13X2-1/2 PLTD. 963746	2.000 ea
032018012AK	HHCS 1/4-20X1-1/2 PLTD.	4.000 ea
004824015A	GREASE POLYREX EM	1.000 lb
032018010CK	HHCS 3/8-16X1-1/4 PLTD. 032018010CR	4.000 ea
033512008LB	HHTTS 1/4-20X1 PLATED	4.000 ea

035000001A	ALFTG 1/8" 1610-BL	1.000 ea
048897010DG	PLUG,ODE BRKT - 360	1.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
065776000V	GASKET, C/B 5.75 SQ	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
418150003A	GREASE FITTING CAP	1.000 ea
033775004EA	DRSCR #6-1/4 304 S.S.	2.000 ea
418150003A	GREASE FITTING CAP	1.000 ea
034180022GA	KEY 1/2X1/2X2-3/4 L	1.000 ea
PK5004A02	WOOD BASE 40X32 WITH STACKED 2X4 RUNNER	1.000 ea
MG1025N19	WILKO 778.50 BLUE GREEN - 55 GAL DRUMS	0.250 ga
004824003CBY	WILKO PAINT 060.02 - ACTIVATOR	0.063 ga
421948051	LABEL, MYLAR	1.000 ea
N424002603DBA	LEAD SET 2-1 AWG 6-DB 400 FR 60 IN	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
	404TS	125	P	3/60	3565	460

AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
143	CONT	40/B	1.15	B	F	PROT

E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES.@25 °C OHMS (BETWEEN LINES)
595946	418142005RE	---	---	.0477

PERFORMANCE

LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY
NO LOAD	0	43.0	3600	5.28	0
1/4	31.3	55.4	3591	57.4	92.1
2/4	62.5	79.2	3582	77.9	94.8
3/4	93.7	109	3573	84.2	95.2
4/4	125	143	3563	86.2	95.0
5/4	156	177	3552	87.3	94.5

SPEED TORQUE

	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES
LOCKED ROTOR	0	175	323	834
PULL UP	1545	158	291	751
BREAKDOWN	3409	235	433	451
FULL LOAD	3563	100	184	143

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%
GUARANTEED MIN. EFF. 94.5%

BALDOR

DR. BY W. L. SMITH
CK. BY G. R. WEBB
APP. BY D. M. BYRD
DATE 03/05/02

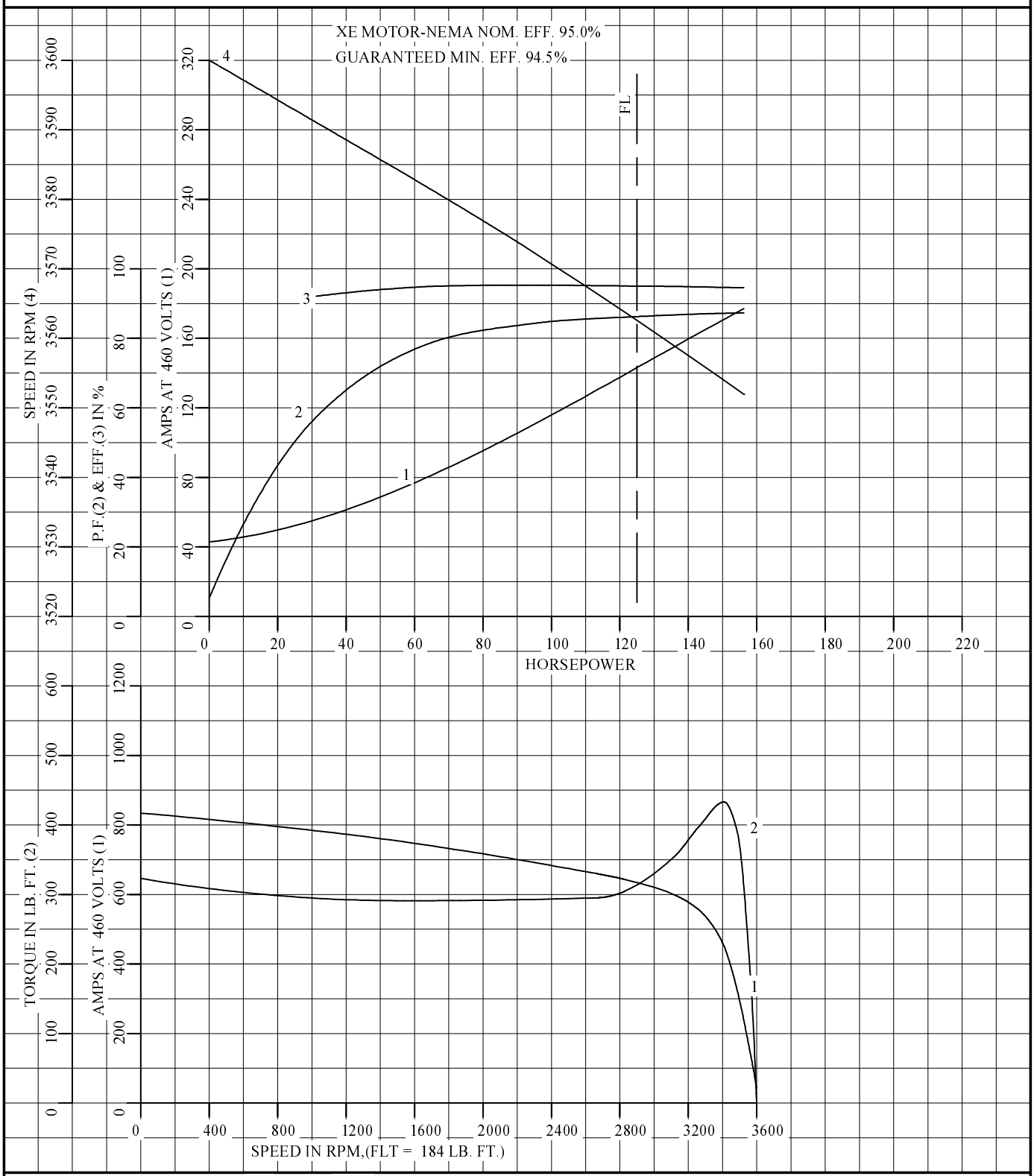
A-C MOTOR PERFORMANCE DATA

A40WG0224-R002
ISSUE DATE 12/15/10

ABB BALDOR RELIANCE

CUSTOMER INFORMATION PACKET EM2554T-4CI - 125HP, 3565RPM, 3PH, 60HZ, 404TS, ODP, FOOT,

FRAME 404TS	RPM 3565	S.F. 1.15	ROTOR 418142005RE
HP 125	VOLTS 460	NEMA DESIGN B	TEST S.O. TYPICAL DATA
TYPE P	AMPS 143	CODE LETTER F	TEST DATE ---
PHASE/HERTZ 3/60	DUTY CONT	ENCLOSURE PROT	STATOR RES.@ 25 ℃ .0477
	AMB ℃/INSUL 40/B	E/S 595946	OHMS (BETWEEN LINES)



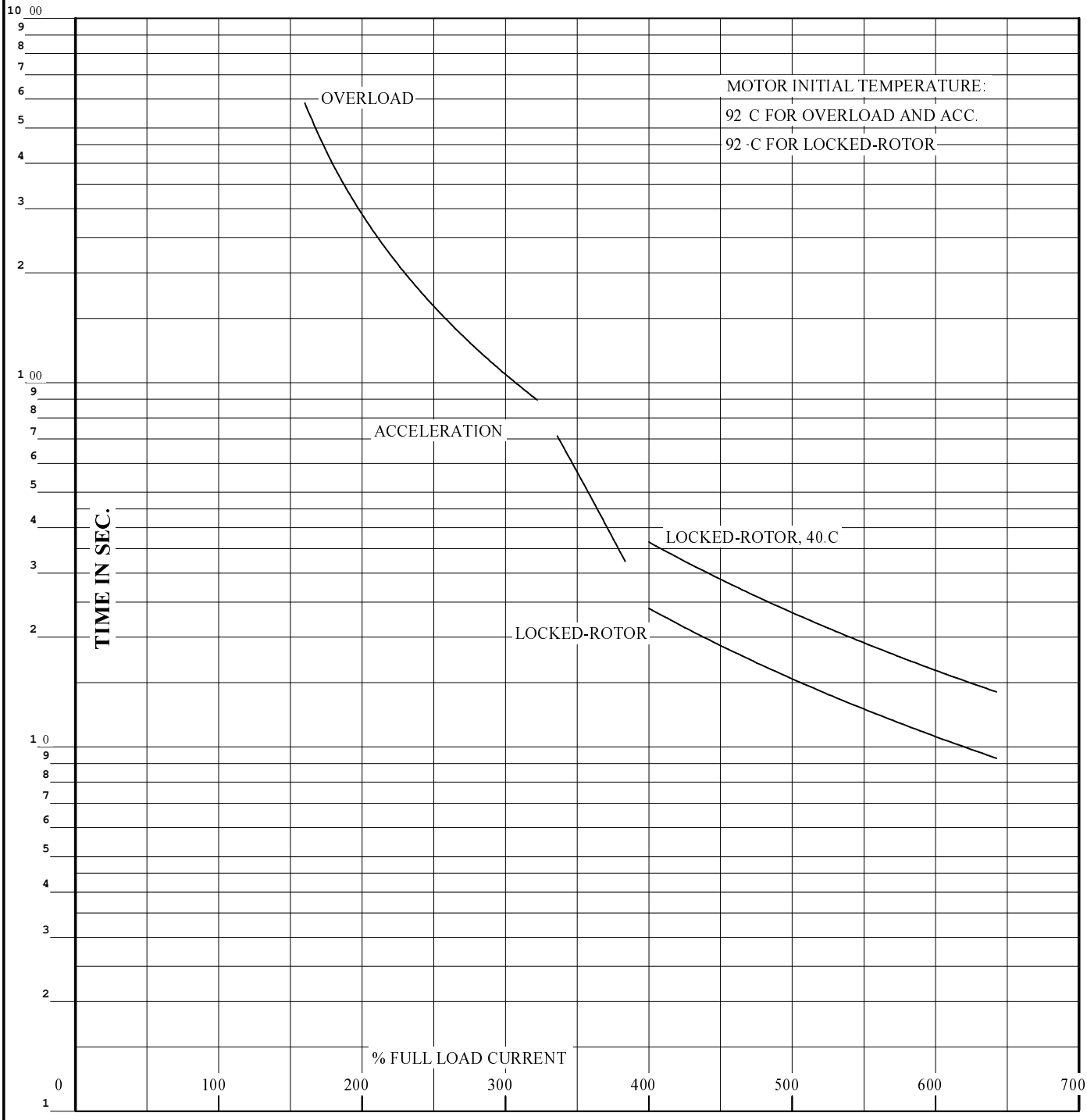
AMPERES SHOWN FOR 460 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

BALDOR

DR. BY	W. L. SMITH
CK. BY	G. R. WEBB
APP. BY	D. M. BYRD
DATE	03/05/02

A–C MOTOR PERFORMANCE CURVES A40WG0224-R002 ISSUE DATE 12/15/10

REL. S.O.	RPM 3565	S.F. 1.15	ROTOR 418142005RE
FRAME 404TS	VOLTS 460	NEMA DESIGN B	TEST S.O. TYPICAL DATA
HP 125	AMPS 143	CODE LETTER F	TEST DATE ---
TYPE P	DUTY CONT	ENCLOSURE PROT	STATOR RES.@ 25 ℃.0477
PHASE/HERTZ 3/60	AMB ℃/INSUL 40/B	E/S 595946	OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

REMARKS: XE MOTOR-NEMA NOM. EFF. 95.0%

GUARANTEED 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

DR. BY	W. L. SMITH
CK. BY	G. R. WEBB
APP. BY	D. M. BYRD
DATE	03/05/02

A-C MOTOR PERFORMANCE CURVES A40WG0224-R002 ISSUE DATE 12/15/10

DUTY MASTER ALTERNATING CURRENT MOTORS

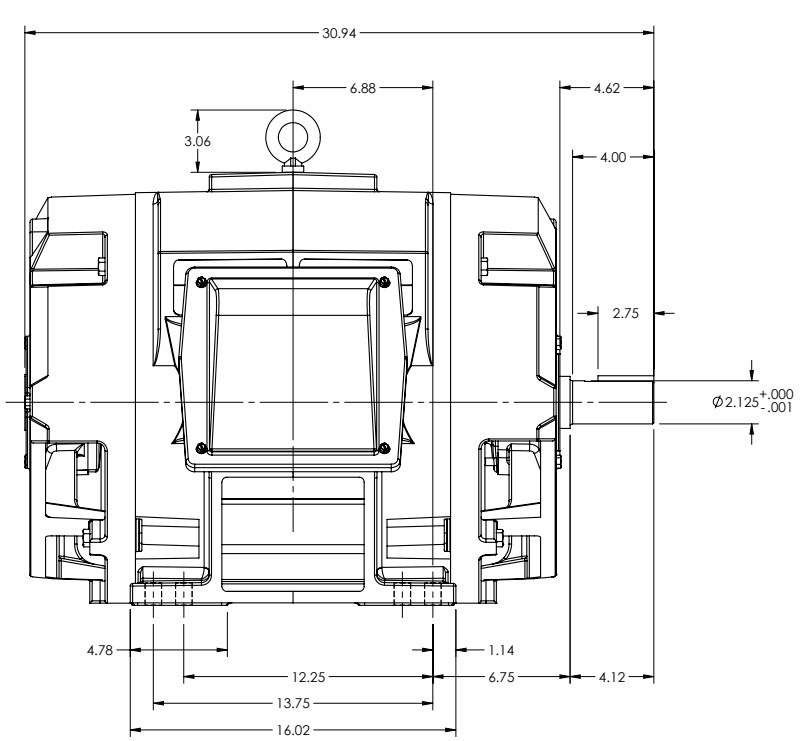
SQUIRREL-CAGE INDUCTION
CAST IRON CONSTRUCTION

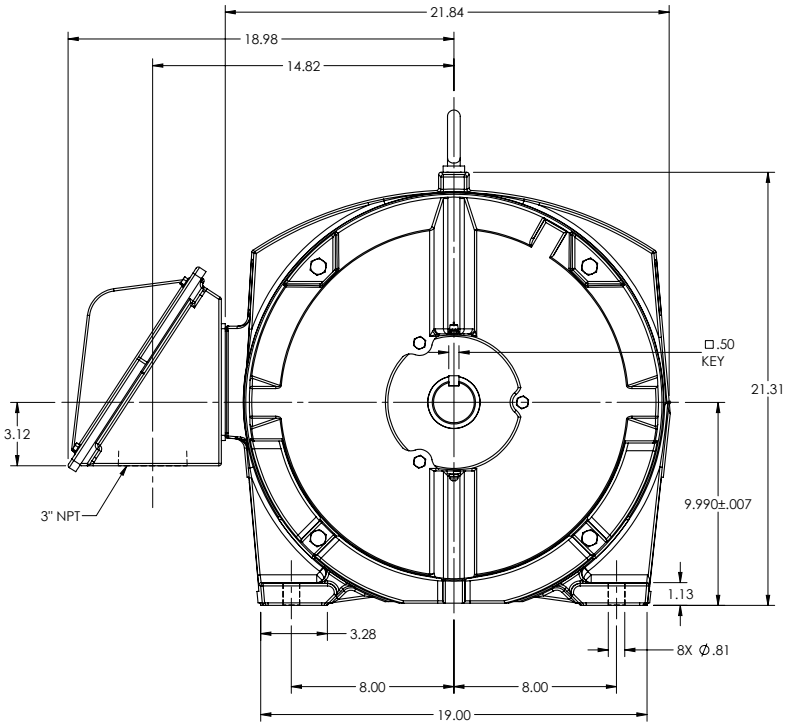
617428-120

ENCLOSURE: PROTECTED
MOUNTING: FOOT

FRAMES 404TS-405TS

COOLING: SELF-VENTILATED





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

WEIGHT (LBS): 404TS = 1040
405TS = 1080

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 404-5TS ON 611750-501			
REV: -	VERSION: 00	REVISED: 08:05:20 06/09/2016	TDR: 000000983687
MODEL NO. 617428-120			REF: -
BY: ENWINB0			B

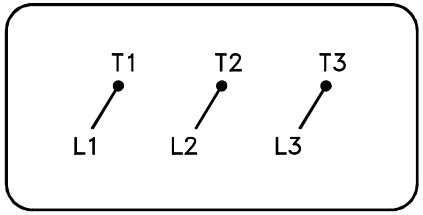
BALDOR

DIM SHT 404-5TS (611750-501)

617428-120

416820–036

A–C MOTOR
CONNECTION DIAGRAM
STANDARD 3 LEAD CONNECTED



(N.P. 1575–BA)

416820–036

REV. DESC: LOADED TO BUS, C/R 335225			BALDOR
REV. LTR: –	VERSION: 00	TDR: 000000538207	
FILE: \MGA\00000\682		REVISED: 11:54:06 04/30/2010	CONN DIAG – STANDARD 3 LEAD
MTL: –		BY: RAGRA	SH 1 of 1