ABB BALDOR RELIANCE

Customer information packet

ECP4313T-5

75HP, 3555RPM, 3PH, 60HZ, 365TS, TEFC, F1
Class - None
Division - Division II

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Specifications

Enclosure	TEFC
Frame	365TS
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Division II
Motor Letter Type	Three Phase
Output @ Frequency	75.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	CCSAUSEEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Constant Torque Speed Range	10-60
Current @ Voltage	65.500 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.6 %
Enclosure Modification	Severe Duty Features
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3
Heater Indicator	No Heater
High Voltage Full Load Amps	65.5 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	F
Lifting Lugs	Standard Lifting Lugs
Motor Lead Quantity/Wire Size	3 @ 4 AWG

Part Detail

Revision	D
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A36WG1546
Layout	617428-298
Eff. date	10-24-2024
CD Diagram	416820-036
Poles	02
Leads	3#4
Proprietary	False
Created date	10-01-2019

Motor Standards	NEMA
Motor Type	A36068M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	31.35 IN
Power Factor	92
Product Family	General Industrial
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.15
Shaft Diameter	1.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	3555 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP2496L
MOBIL POLYREX EM

000901002AAA
IP55 CONSTRUCTION

NP3238												
CAT NO	ECP4313T-5	**SPEC NO.**	A36-7806-1546									
HP	75	**AMPS**	65.5	**VOLTS**	575	**DESIGN**	B					
FRAME	365TS	**RPM**	3555	**HZ**	60	**AMB**	40	**SF**	1.15			
D.E. BRG.DATA	6313	**O.D.E. BRG.DATA**	6313	**PH**	3	**DUTY**	CONT	**INSUL.CLASS**	F			
D.E. BRG.	65BC03J30X	**TYPE**	P	**ENCL**	TEFC	**CODE**	F					
O.D.E. BRG.	65BC03J30X	**POWER FACTOR**	92	**NEMA NOM EFFICIENCY**	93.6							
3/4 LOAD EFF.	93.8	**MAX CORR KVAR**	6.5	**GUARANTEED EFFICIENCY**	92.4							
TEMP CODE	T3	**TEMP =**	200									
CHP HZ	60-75	**CT HZ**	10-60	**VT HZ**	0-60							
INVERTER-TEMP-CODE	T3											
SER.NO.		**MOTOR WEIGHT**										

Parts List

Part number	Description	Quantity
SA374840	SA A36-7806-1546	1.000 ea
RA364716	RA A36-7806-1546	1.000 ea
421948051	LABEL, MYLAR	1.000 ea
NP2496L	MOTOR LUBE NAMEPLATE	1.000 ea
000613006PU	N/P (RELEASE QTY 10,000) UL CSA LABEL	1.000 ea
000692000VD	LABEL WARNING	1.000 ea
000901002AAA	N/P BLANK (RELEASE QTY 1,500)	1.000 ea
LB1449	DIV-2/NEC WARNING LABEL	1.000 ea
NP3238	SS CP XEX SEVERE DUTY MAIN NP,CURUS EEV	1.000 ea
085922073B	BRKT 360 085922072WCC KB	1.000 ea
415072001B	CLAMP	1.000 ea
078559001A	+FANCV - 360	1.000 ea
034180012DA	KEY 1X4X1/4X1-1/2 L	1.000 ea
412118006A	DRAIN	1.000 ea
702675001C	FAN 360	1.000 ea
004824015A	GREASE POLYREX EM	0.540 lb
032018012DK	HHCS 1/2-13X1-1/2 PLTD. 032018012DR	4.000 ea
032018008AK	HHCS 1/4-20X1 PLATED	4.000 ea
032018024CK	HHCS 3/8-16X3 PLTD.	3.000 ea
415096002A	CPLG 1/8 HEX TYPE	1.000 ea
415045002E	SLGR	1.000 ea
410700004F	WSHR	1.000 ea
035000001G	GREASE RELIEF FITTING, ALEMITE 317400	1.000 ea
034530052AB	P/NIP 1/8X6-1/2 Zinc	1.000 ea
034600001AA	BUSH 1/4TO1/8 BLACK	1.000 ea
034600001AA	BUSH 1/4TO1/8 BLACK	1.000 ea
085922073B	BRKT 360 085922072WCC KB	1.000 ea
032018012DK	HHCS 1/2-13X1-1/2 PLTD. 032018012DR	4.000 ea
032018024CK	HHCS 3/8-16X3 PLTD.	3.000 ea
415045002E	SLGR	1.000 ea
412118006A	DRAIN	1.000 ea

034530020AB	P/NIP 1/8X2-1/2 PLTED	1.000 ea
415096002A	CPLG 1/8 HEX TYPE	1.000 ea
035000001G	GREASE RELIEF FITTING, ALEMITE 317400	1.000 ea
076708000BB	CONDUIT BOX-360	1.000 ea
065776000C	GASKET,MAIN CBOX, 320-400	1.000 ea
076709000A	C/B Cover - 360	1.000 ea
067053000B	GASK 320-400	1.000 ea
418150003A	GREASE FITTING CAP	1.000 ea
032018010CK	HHCS 3/8-16X1-1/4 PLTD. 032018010CR	4.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
415000115H	T/LUG #2AWG-4/0AWG	1.000 ea
033512008LB	HHTTS 1/4-20X1 PLATED	4.000 ea
406099000A	PLUG - FAN COVER 320-440	1.000 ea
032018005DL	1/2-13 X 5/8 SILICON BRONZE HHCS	1.000 ea
034000014AB	WSH ID.406 OD.812 TH.065	4.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
418150003A	GREASE FITTING CAP	1.000 ea
MG1025N19	WILKO 778.50 BLUE GREEN - 55 GAL DRUMS	0.250 ga
033775004EA	DRSCR #6-1/4 304 S.S.	4.000 ea
034180016GA	KEY 1/2X1/2X2 L	1.000 ea
14PA1000	PACKAGING 314 GROUP COMBINED PRINT	1.000 ea
HW1000A32	5/16 FL WASHER WIDE,ID=.344,OD=1.125	3.000 ea
032509020C	CARRIAGE BOLT - 360	3.000 ea

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	365TSD	75	P	3/60	3555	575

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

E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES.@25 °C OHMS (BETWEEN LINES)
-	418141005TE	---	---	.116

PERFORMANCE

LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY
NO LOAD	0	12.3	3600	12.6	0
1/4	18.8	19.9	3589	79.0	89.2
2/4	37.5	33.2	3578	91.0	93.0
3/4	56.2	48.8	3567	92.1	93.8
4/4	75.0	65.5	3555	91.6	93.6
5/4	93.8	82.7	3542	91.2	93.1

SPEED TORQUE

	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES
LOCKED ROTOR	0	212	235	420
PULL UP	2130	178	197	357
BREAKDOWN	3395	256	284	237
FULL LOAD	3555	100	111	65.5

AMPERES SHOWN FOR 575. 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. 93.6 %

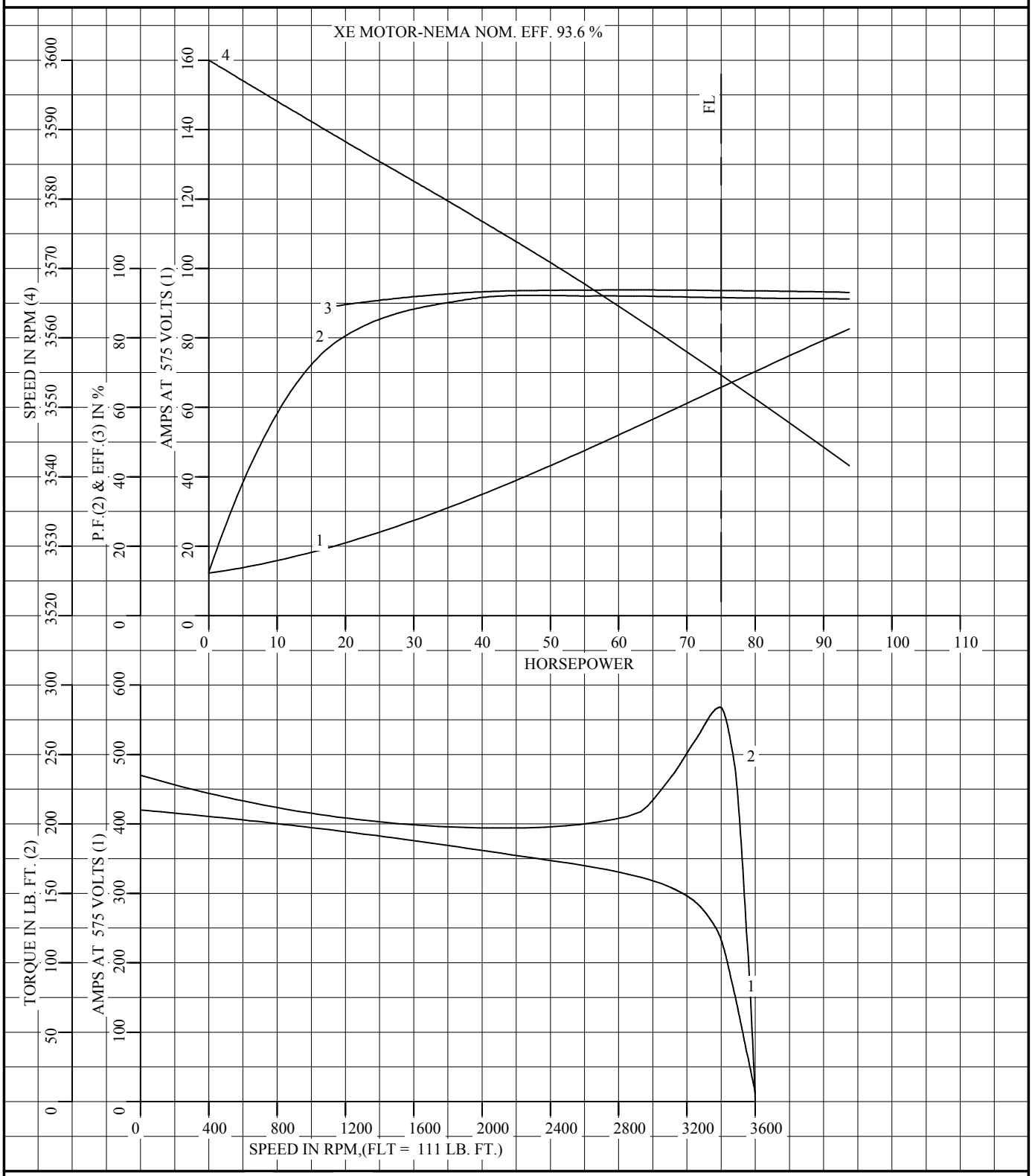
BALDOR
A MEMBER OF THE ABB GROUP

DR. BY W. L. SMITH
CK. BY C.E.JAMISON
APP. BY W. L. SMITH
DATE 10/05/17

A-C MOTOR PERFORMANCE DATA

A36WG1546-R013
ISSUE DATE 01/22/21

REL S.O.		RPM	3555	S.F.	1.15	ROTOR	418141005TE
FRAME	365TSD	VOLTS	575	NEMA DESIGN	B	TEST S.O.	TYPICAL DATA
HP	75	AMPS	65.5	CODE LETTER	F	TEST DATE	---
TYPE	P	DUTY	CONT	ENCLOSURE	TEFC	STATOR RES.@ 25 °C	.116
PHASE/HERTZ	3/60	AMB °C/INSUL	40/F	E/S	–		OHMS (BETWEEN LINES)



AMPERES SHOWN FOR 575 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

BALDOR A MEMBER OF THE ABB GROUP

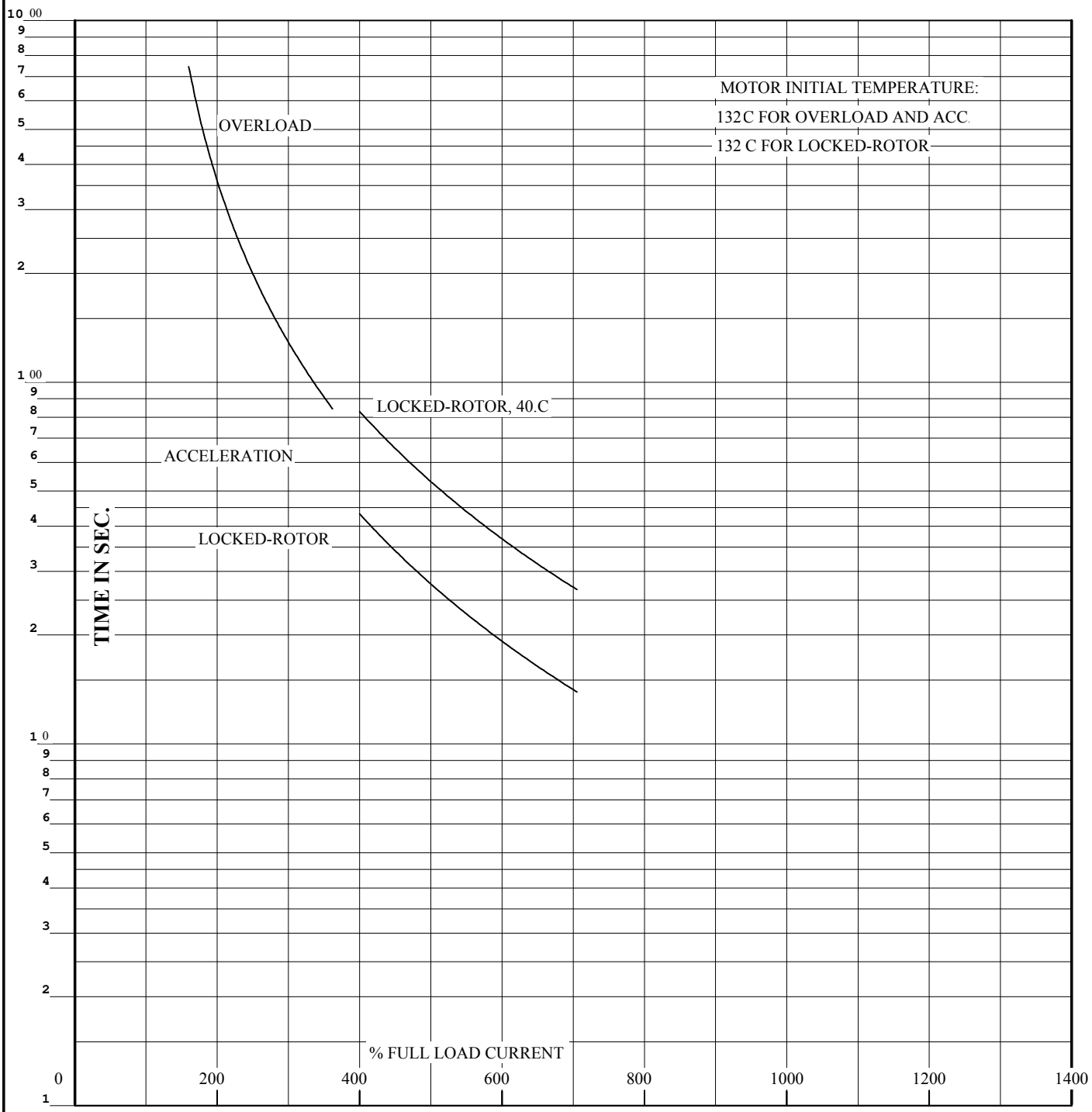
DR. BY	W. L. SMITH
CK. BY	C.E.JAMISON
APP. BY	W. L. SMITH
DATE	10/05/17

A-C MOTOR PERFORMANCE CURVES

A36WG1546-R013

ISSUE DATE 01/22/21

REL. S.O.	RPM 3555	S.F. 1.15	ROTOR 418141005TE
FRAME 365TSD	VOLTS 575	NEMA DESIGN B	TEST S.O. TYPICAL DATA
HP 75	AMPS 65.5	CODE LETTER F	TEST DATE ---
TYPE P	DUTY CONT	ENCLOSURE TEFC	STATOR RES.@ 25 ℃.116
PHASE/HERTZ 3/60	AMB ℃/INSUL 40/F	E/S -	OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

REMARKS: XE MOTOR-NEMA NOM. EFF. 93.6 %

AMPERES SHOWN FOR 575 **VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.**

SHEET NUMBER 1 OF 2

617428-298

DUTY MASTER ALTERNATING CURRENT MOTORS

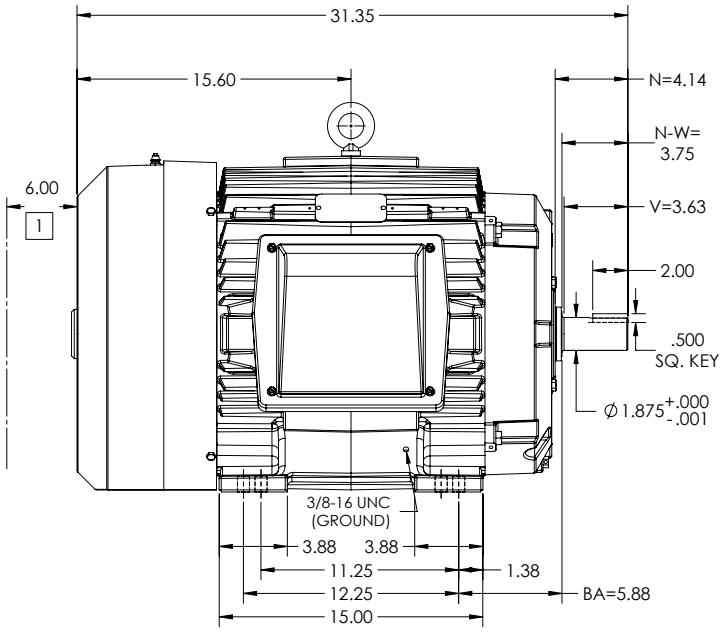
ENCLOSURE: TOTALLY ENCLOSED

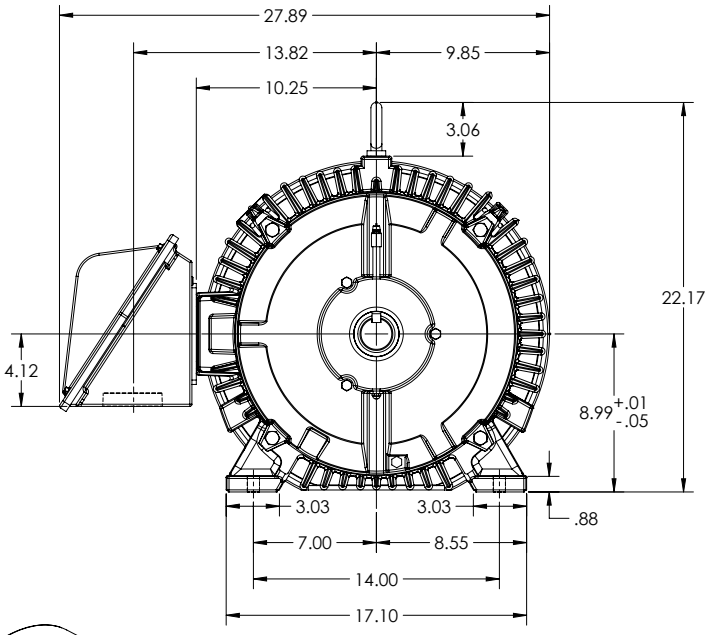
SQUIRREL-CAGE INDUCTION

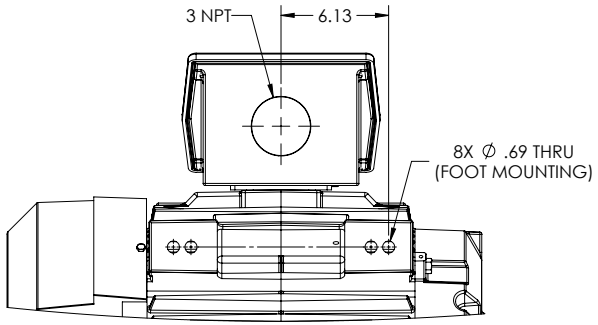
MOUNTING: FOOT, F-1

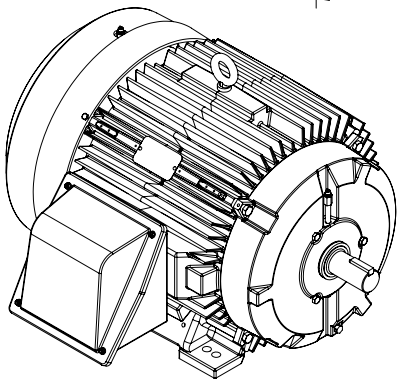
E364TS/E365TS FRAME MOUNTING HOLES

COOLING: FAN COOLED









DIMENSIONS ARE IN INCHES.
WEIGHT (LBS.) 800 / MOTOR WEIGHT MAY VARY 15% DEPENDING ON RATING.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

1 OBSTRUCTIONS MUST NOT ENCROACH ON AIR INLET.

IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.
MAX PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF STANDARD SHAFT EXTENSION IS .003" T.I.R.

REV. DESC: ADD METRIC DS			
REV: B	VERSION: 02	REVISED: 08:05:53 02/24/2023	TDR: 000001204722
MODEL NO. 617428-298			
BY: USJEDIL			C

BALDOR

E364/365TS TEFC F1 FOOT/CAST IRON CONDUIT BOX

617428-298

617428-298

SHEET NUMBER 2 OF 2

617428-298

DUTY MASTER ALTERNATING CURRENT MOTORS

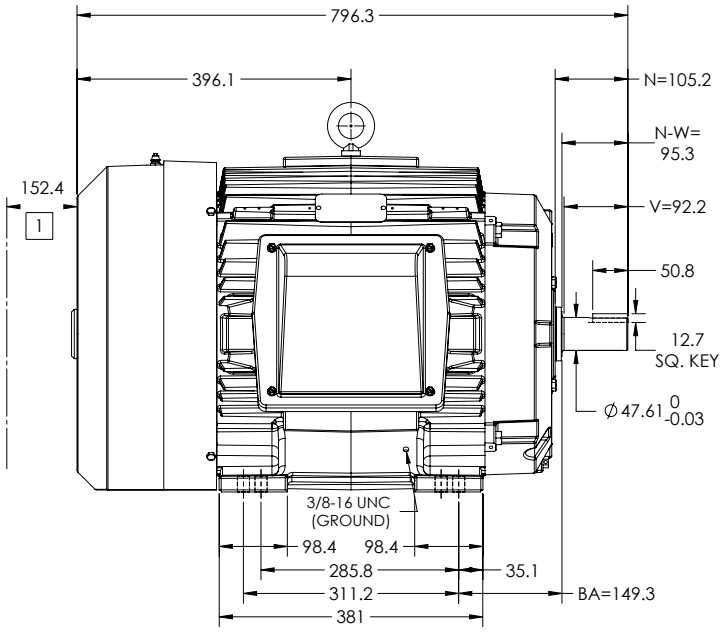
ENCLOSURE: TOTALLY ENCLOSED

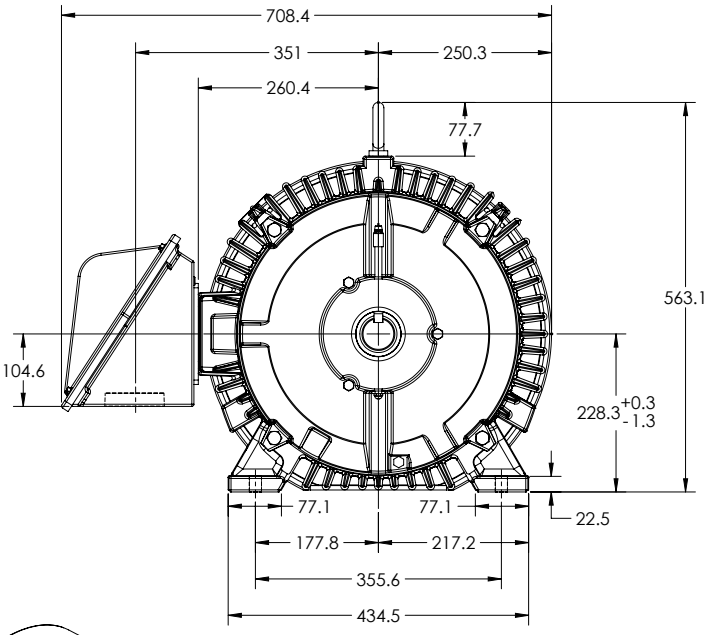
SQUIRREL-CAGE INDUCTION

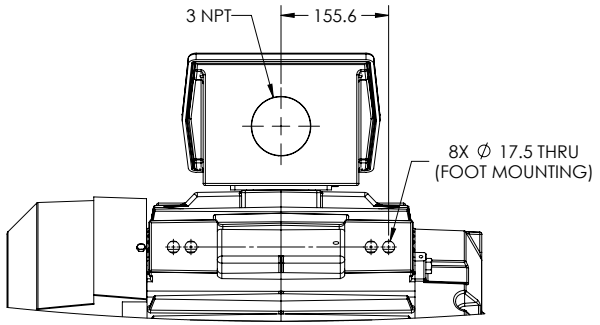
MOUNTING: FOOT, F-1

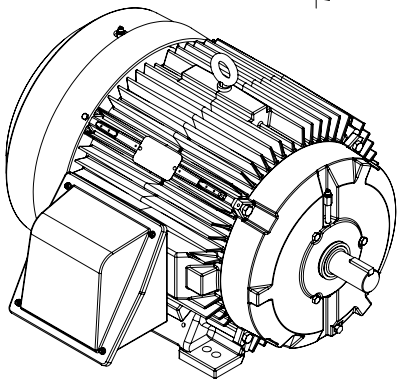
E364TS/E365TS FRAME MOUNTING HOLES

COOLING: FAN COOLED









1 OBSTRUCTIONS MUST NOT ENCROACH ON AIR INLET.

IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.
MAX PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF STANDARD SHAFT EXTENSION IS .08 T.I.R.

DIMENSIONS ARE IN MILLIMETERS.
WEIGHT (KG) 363, MOTOR WEIGHT MAY VARY +/-15% DEPENDING ON RATING.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

REV. DESC: ADD METRIC DS			
REV: B	VERSION: 02	REVISED: 08:05:53 02/24/2023	TDR: 000001204722
MODEL NO. 617428-298			
BY: USJEDIL			C

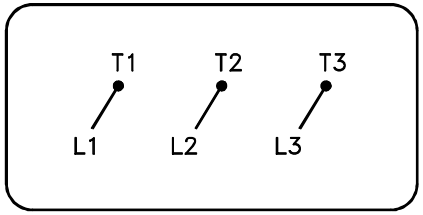
BALDOR

E364/365TS TEFC F1 FOOT/CAST IRON CONDUIT BOX

617428-298

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