ABB BALDOR RELIANCE

Customer information packet

EWDM4313T

75HP, 3555RPM, 3PH, 60HZ, 365TS, TEFC, F1
Class - None
Division - Not Applicable

Copyright © All product information within this document is subject to ABB Motors and Mechanical Inc. copyright © protection, unless otherwise noted.
11/15/2026 7:22:23 PM

Specifications

Enclosure	TEFC
Frame	365TS
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	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	CSA EEV
	CCSA US
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	80.700 A @ 460.0 V
	161.000 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.5 %
Enclosure Modification	Severe Duty Features
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	80.7 a
Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	IP55
KVA Code	G

Part Detail

Revision	A
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A36WG0319
Layout	617428-298
Eff. date	10-01-2021
CD Diagram	416820-002
Poles	02
Leads	3#2,6#4
Proprietary	False
Created date	08-30-2019

Lifting Lugs	Standard Lifting Lugs
Motor Lead Quantity/Wire Size	3 @ 2 AWG
Motor Standards	NEMA
Motor Type	A36068M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	31.35 IN
Power Factor	92
Product Family	Washdown Features
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

NP2428L												
SPEC NO.	A36-7830-0319	**CAT.NO.**	EWDM4313T							**FRAME**	365TS	
HP	75	**VOLTS**	230/460	**PHASE**	3	**DESIGN**	B	**TYPE**	P			
RPM	3555	**AMPS**	161/80.7	**HZ**	60	**AMB**	40	**SF**	1.15			
DRIVE END BEARING	65BC03JGG30A	**DUTY**	CONT	**INSUL.CLASS**	F							
OPP D.E. BEARING	65BC03JGG30A	**ENCL**	TEFC	**CODE**	G							
SER.NO.		**POWER FACTOR**	92					**NEMA-NOM-EFFICIENCY**		94.5		
						MAX CORR KVAR	5	**GUARANTEED EFFICIENCY**		93.6		
	IP55					**NEMA NOM/CSA QUOTED EFF**						
	4:1CT AND 4:1VT ON VPWM INVERT					ER, 1.00SF				**MOTOR WEIGHT**		

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	365TC	75	P	3/60	3555	230/460

AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
161/80.7	CONT	40/F	1.15	B	G	TEFC

E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES.@25 °C OHMS (BETWEEN LINES)
892019	418141005TE	---	---	.0186/.0744

PERFORMANCE

LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY
NO LOAD	0	15.5	3600	8.92	0
1/4	18.8	24.5	3589	77.9	92.0
2/4	37.5	40.8	3578	90.8	94.8
3/4	56.2	60.0	3567	92.2	95.3
4/4	75.0	80.7	3555	91.6	95.1
5/4	93.8	102	3542	90.9	94.6

SPEED TORQUE

	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES
LOCKED ROTOR	0	218	242	536
PULL UP	1565	190	210	440
BREAKDOWN	3395	230	255	259
FULL LOAD	3555	100	111	80.7

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. 94.5 %
GUARANTEED MIN. EFF. 93.6%

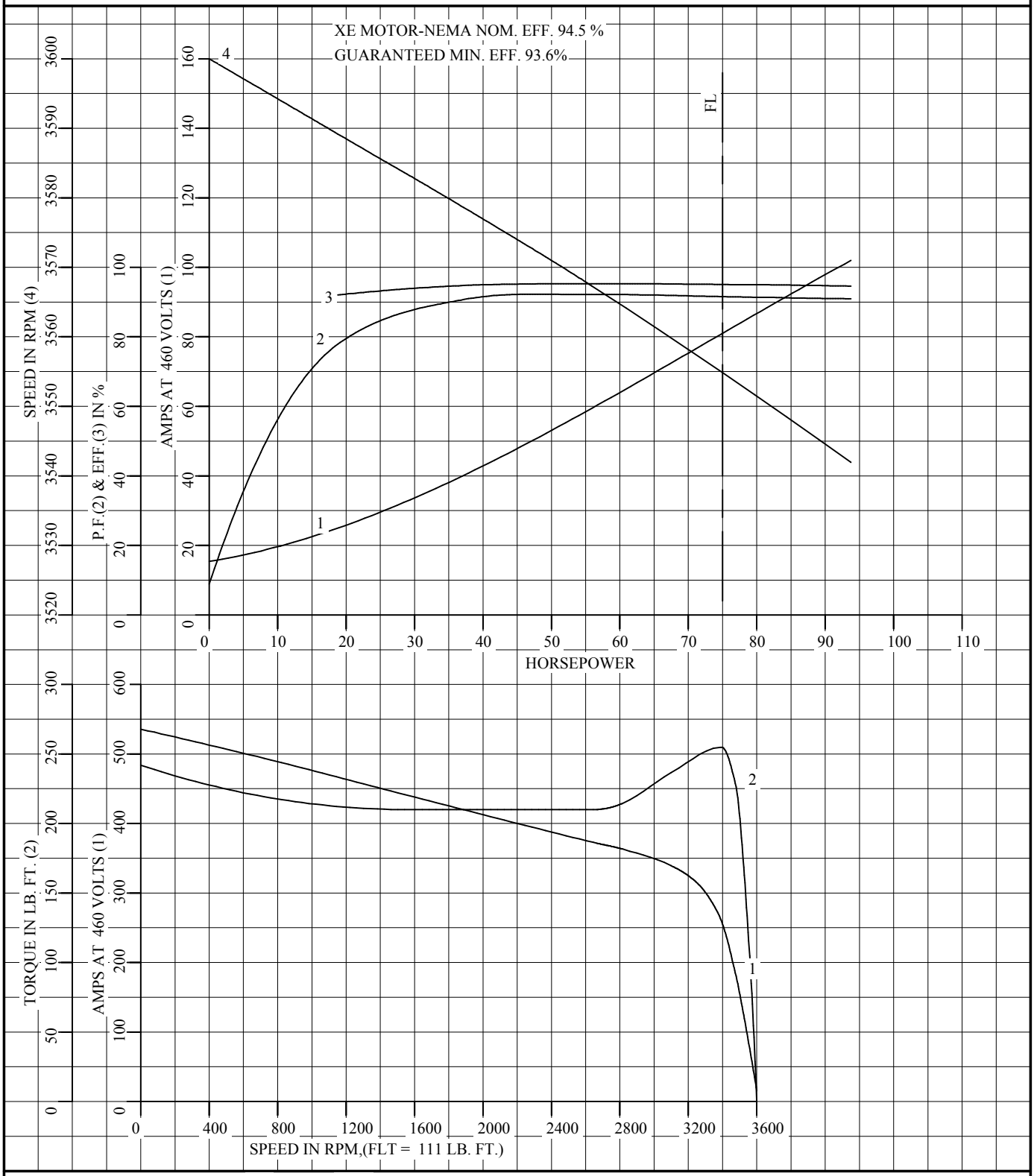
BALDOR
A MEMBER OF THE ABB GROUP

DR. BY J.J.HARRISON
CK. BY G. R. WEBB
APP. BY W.L.SMITH
DATE 10/16/02

A-C MOTOR PERFORMANCE DATA

A36WG0319-R001
ISSUE DATE 04/14/21

REL S.O.	RPM 3555	S.F. 1.15	ROTOR 418141005TE
FRAME 365TC	VOLTS 230/460	NEMA DESIGN B	TEST S.O. TYPICAL DATA
HP 75	AMPS 161/80.7	CODE LETTER G	TEST DATE ---
TYPE P	DUTY CONT	ENCLOSURE TEFC	STATOR RES.@ 25 °C .0186/.0744
PHASE/HERTZ 3/60	AMB °C/INSUL 40/F	E/S 892019	OHMS (BETWEEN LINES)



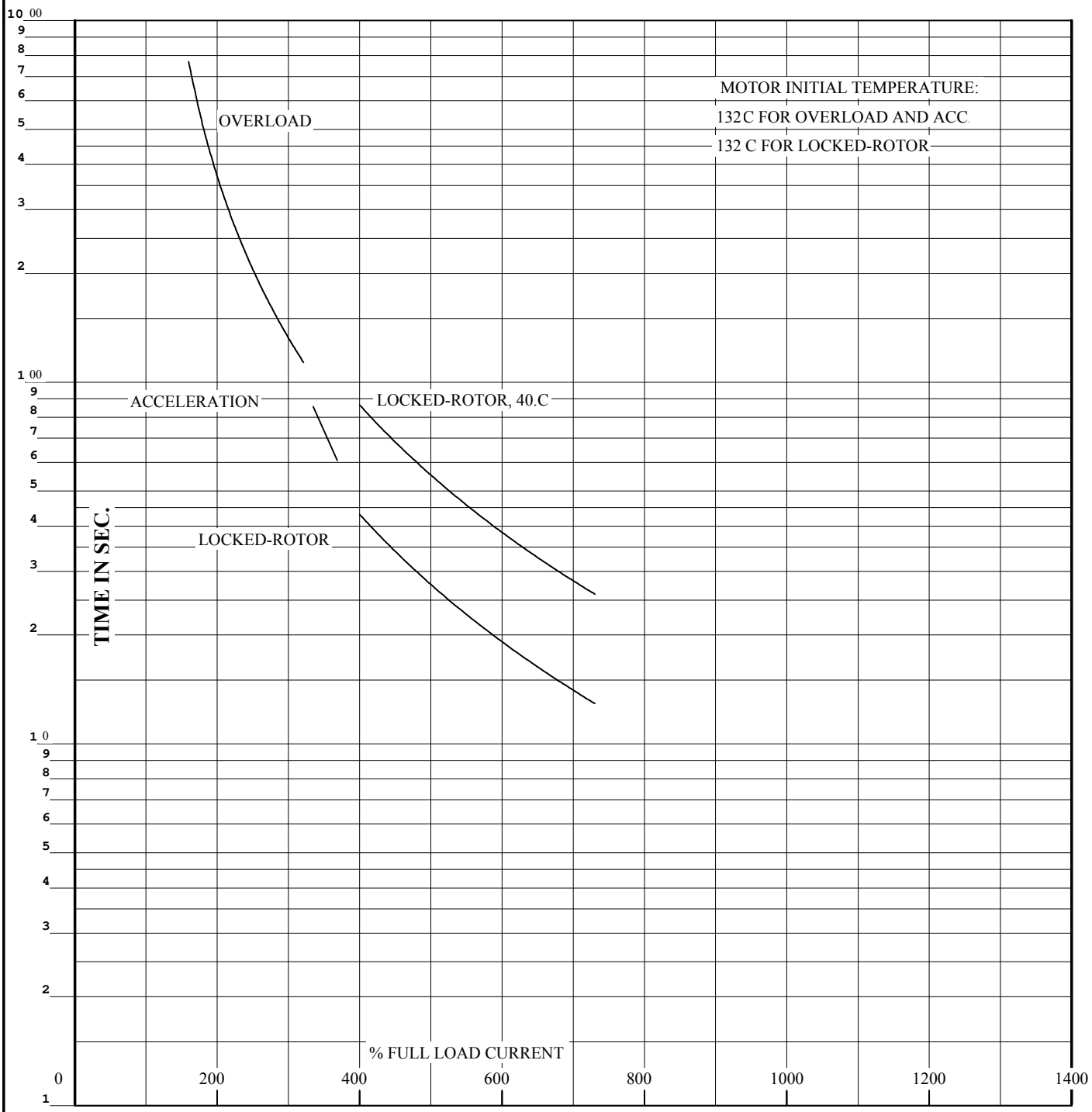
AMPERES SHOWN FOR 460 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

BALDOR
A MEMBER OF THE ABB GROUP

DR. BY	J.J.HARRISON
CK. BY	G. R. WEBB
APP. BY	W.L.SMITH
DATE	10/16/02

A-C MOTOR PERFORMANCE CURVES A36WG0319-R001 ISSUE DATE 04/14/21

REL. S.O.	RPM 3555	S.F. 1.15	ROTOR 418141005TE
FRAME 365TC	VOLTS 230/460	NEMA DESIGN B	TEST S.O. TYPICAL DATA
HP 75	AMPS 161/80.7	CODE LETTER G	TEST DATE ---
TYPE P	DUTY CONT	ENCLOSURE TEFC	STATOR RES.@ 25 ℃.0186/.0744
PHASE/HERTZ 3/60	AMB ℃/INSUL 40/F	E/S 892019	OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

REMARKS: XE MOTOR-NEMA NOM. EFF. 94.5 %

GUARANTEED MIN. EFF. 93.6%

AMPERES SHOWN FOR 460 **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	J.J.HARRISON
CK. BY	G. R. WEBB
APP. BY	W.L.SMITH
DATE	10/16/02

A–C MOTOR PERFORMANCE CURVES A36WG0319-R001 ISSUE DATE 04/14/21

SHEET NUMBER 1 OF 2

617428-298

DUTY MASTER ALTERNATING CURRENT MOTORS

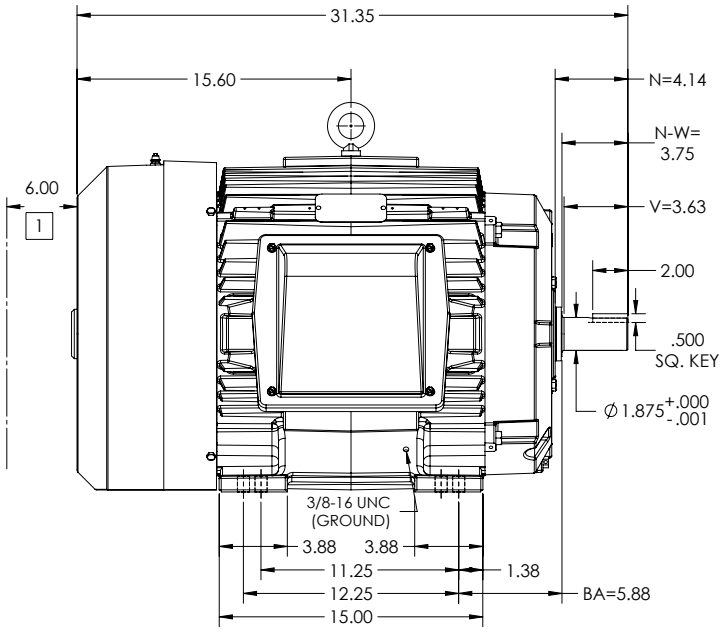
ENCLOSURE: TOTALLY ENCLOSED

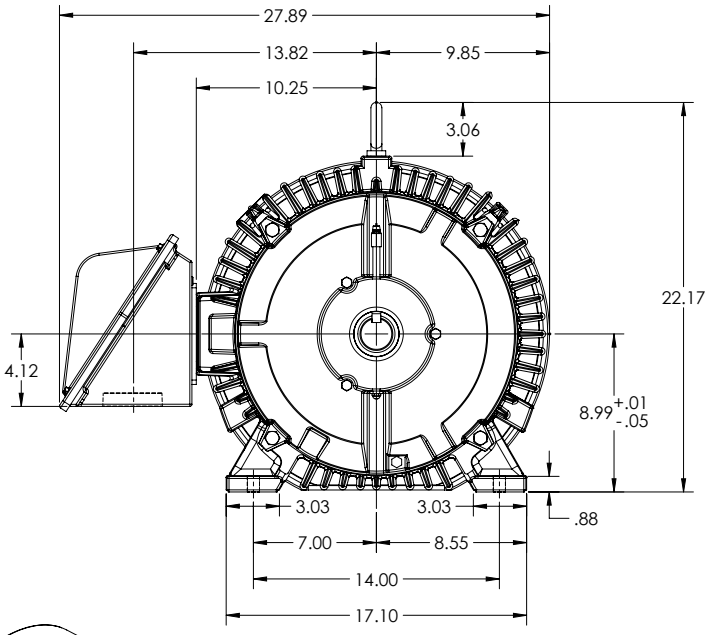
SQUIRREL-CAGE INDUCTION

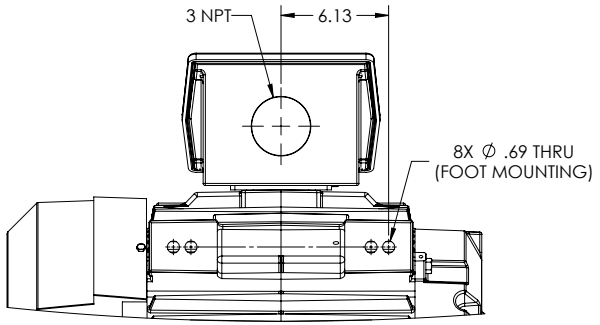
MOUNTING: FOOT, F-1

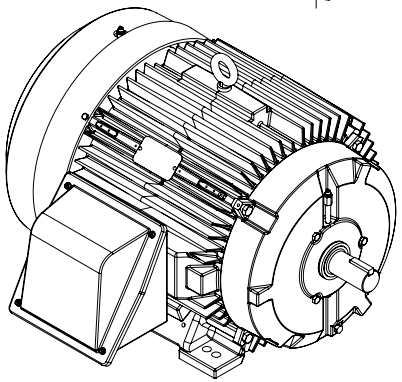
E364TS/E365TS FRAME MOUNTING HOLES

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

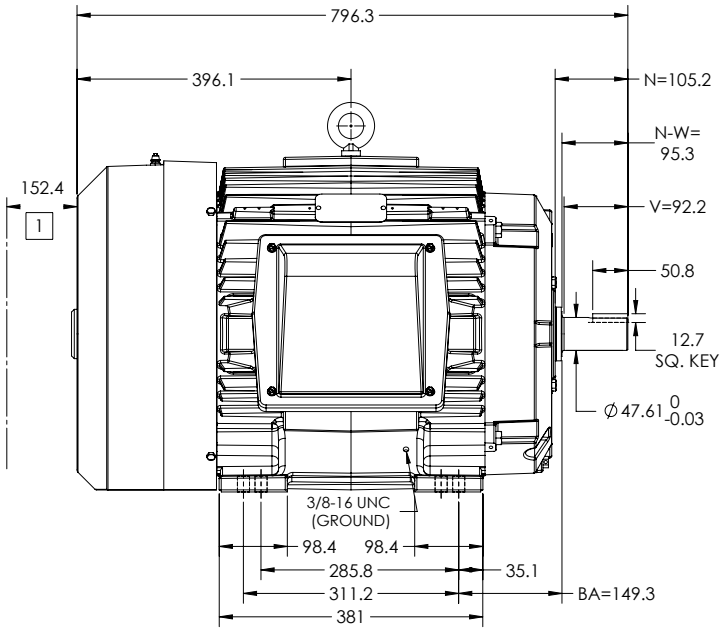
ENCLOSURE: TOTALLY ENCLOSED

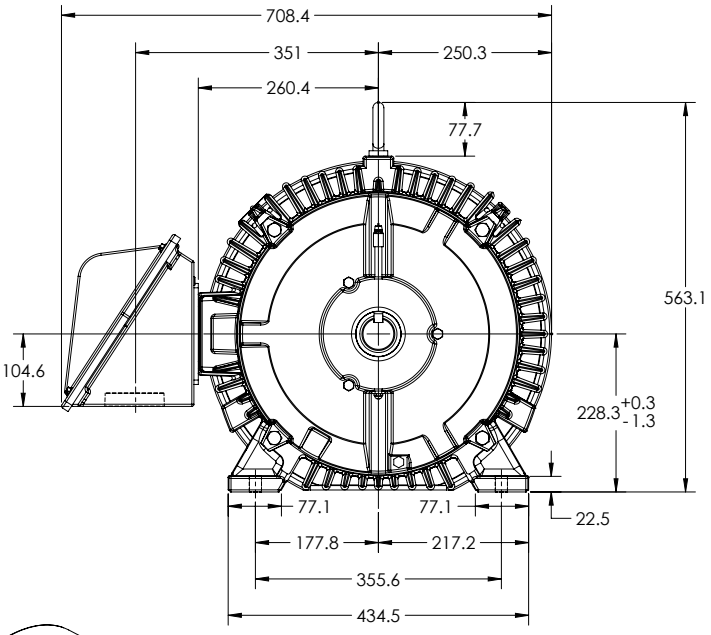
SQUIRREL-CAGE INDUCTION

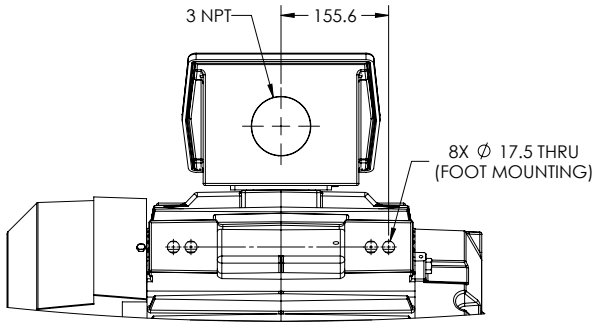
MOUNTING: FOOT, F-1

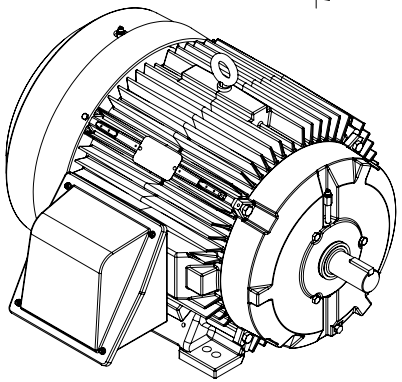
E364TS/E365TS FRAME MOUNTING HOLES

COOLING: FAN COOLED









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.

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.

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

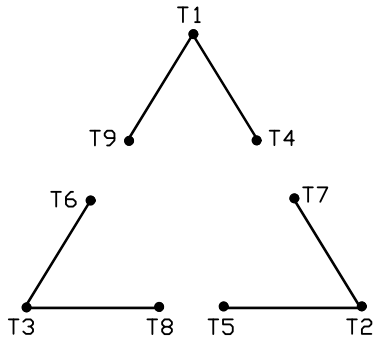
E364/365TS TEFC F1 FOOT/CAST IRON CONDUIT BOX

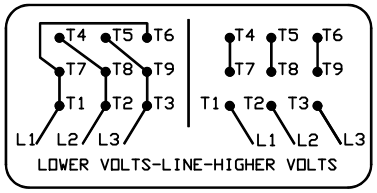
617428-298

617428-298

416820-002

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





(N. P. 1575-B)

416820-002

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