ABB BALDOR RELIANCE

Customer information packet

CEM4313T

75HP, 3555RPM, 3PH, 60HZ, 365TSC, A36068M, TEF
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	365TSC
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	CURUSEEV
	NEMA PREMIUM
	NEMA PREMIUM (OLD LOGO)
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	161.000 A @ 230.0 V
	80.700 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.6 %
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	80.7 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	F
Lifting Lugs	Standard Lifting Lugs

Part Detail

Revision	S
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A36WG0107
Layout	617428-018
Eff. date	07-08-2024
CD Diagram	416820-002
Poles	02
Leads	3#2,6#4
Proprietary	False
Created date	12-17-2010

Max Speed	4500 rpm
Motor Lead Quantity/Wire Size	3 @ 2 AWG
Motor Standards	NEMA
Motor Type	A36068M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	31.31 IN
Power Factor	92
Product Family	Other
Pulley End Bearing Type	Ball
Pulley Face Code	No Endplate
Service Factor	1.15
Shaft Diameter	1.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3555 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP3979LUA

CAT #	CEM4313T			**SER**				**CC**	010A															
SPEC	P36G4677			**RATING**	40C AMB-CONT																			
HZ	**VOLTS**			**AMPS**			**RPM**	**HP**	**CODE**	-	**SF**		**DES**	**PF**			**NEMA NOM. EFF**							
60	230/460			161/80.7			3555	75	F		1.15		B	92	**%**		93.6	**%**						
	-														**%**			**%**						
PH	3	**CL**	F	**MAX CORR KVAR**	5.00																			
BRG	**DE**	6313	**ODE**	6313	**ENCL**	TEFC	**FR**	365TSC		54														
GREASE	POLYREX EM							**MTR WT**	974	**LBS**														
USABLE AT	50HZ 60HP 190/380V 156/78A							SF1.0																
INVERTER DUTY	**CT**	15-60	**HZ**	4:1	**VT**	3-60	**HZ**	20:1	**CHP**	60-75	**HZ**	1.25:1	**1.0 SF VPWM**											
MAX RPM	4500																							

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

AMPS	DUTY	AMB °C/ INSUL	S.F.	NEMA DESIGN	CODE LETTER	ENCLOSURE
161/80.7	CONT	40/F	1.15	B	F	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	15.7	3600	9.76	0
1/4	18.8	24.7	3589	78.2	91.1
2/4	37.5	40.8	3577	91.7	94.0
3/4	56.2	59.8	3565	93.3	94.3
4/4	75.0	80.7	3553	92.6	94.0
5/4	93.8	103	3539	91.5	93.3

SPEED TORQUE

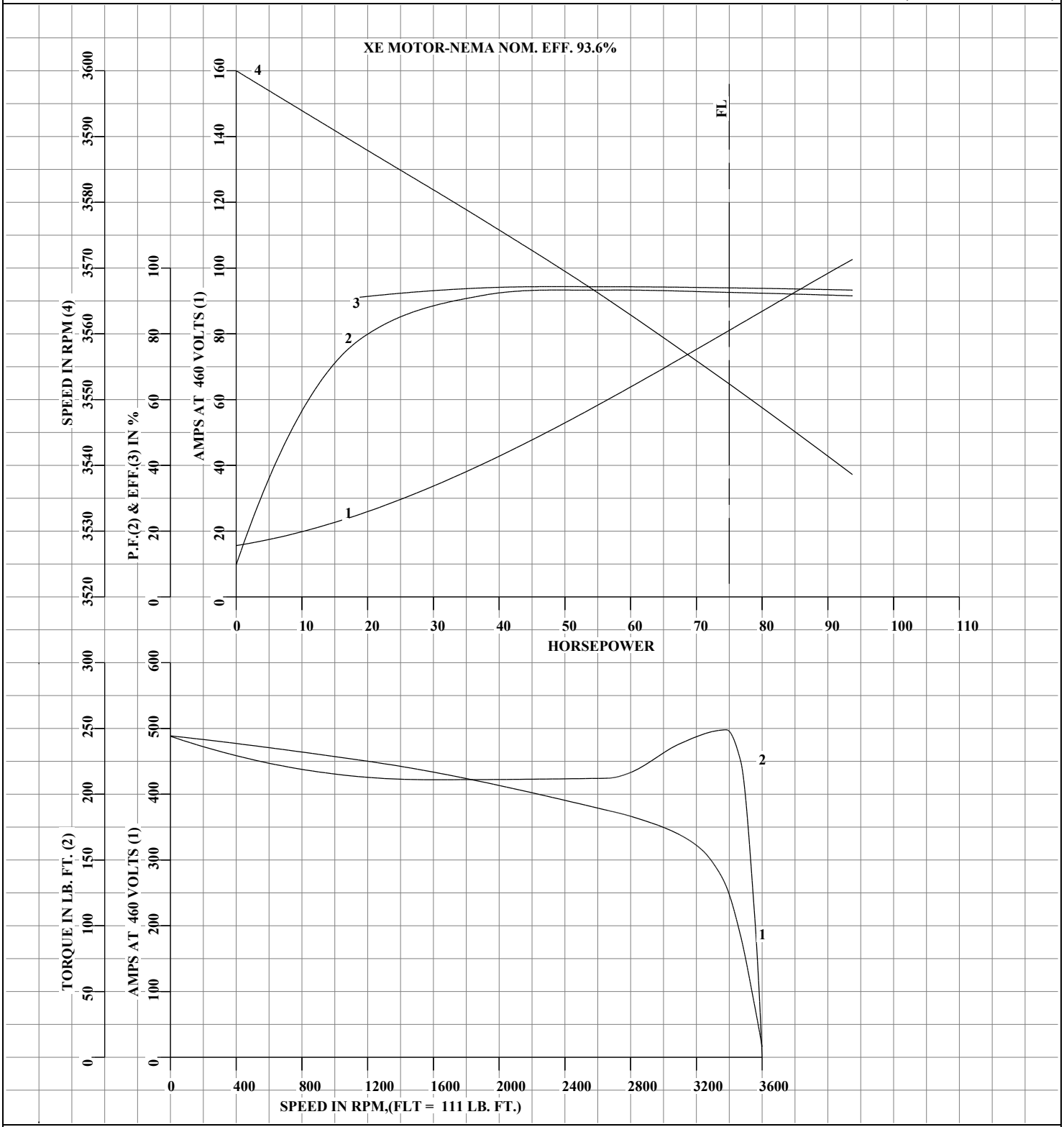
	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES
LOCKED ROTOR	0	220	244	489
PULL UP	1565	190	211	435
BREAKDOWN	3383	225	249	259
FULL LOAD	3553	100	111	80.7

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

TYPICAL DATA
XE MOTOR-NEMA NOM. EFF. 93.6%

ABB	DRAWN BY: J. P. TSAO CHECKED BY: J. P. TSAO APPROVED BY: W.L.SMITH DATE: 09/30/22	AC MOTOR PERFORMANCE DATA	A36WG0107-R006 DATE ISSUED 09/30/22

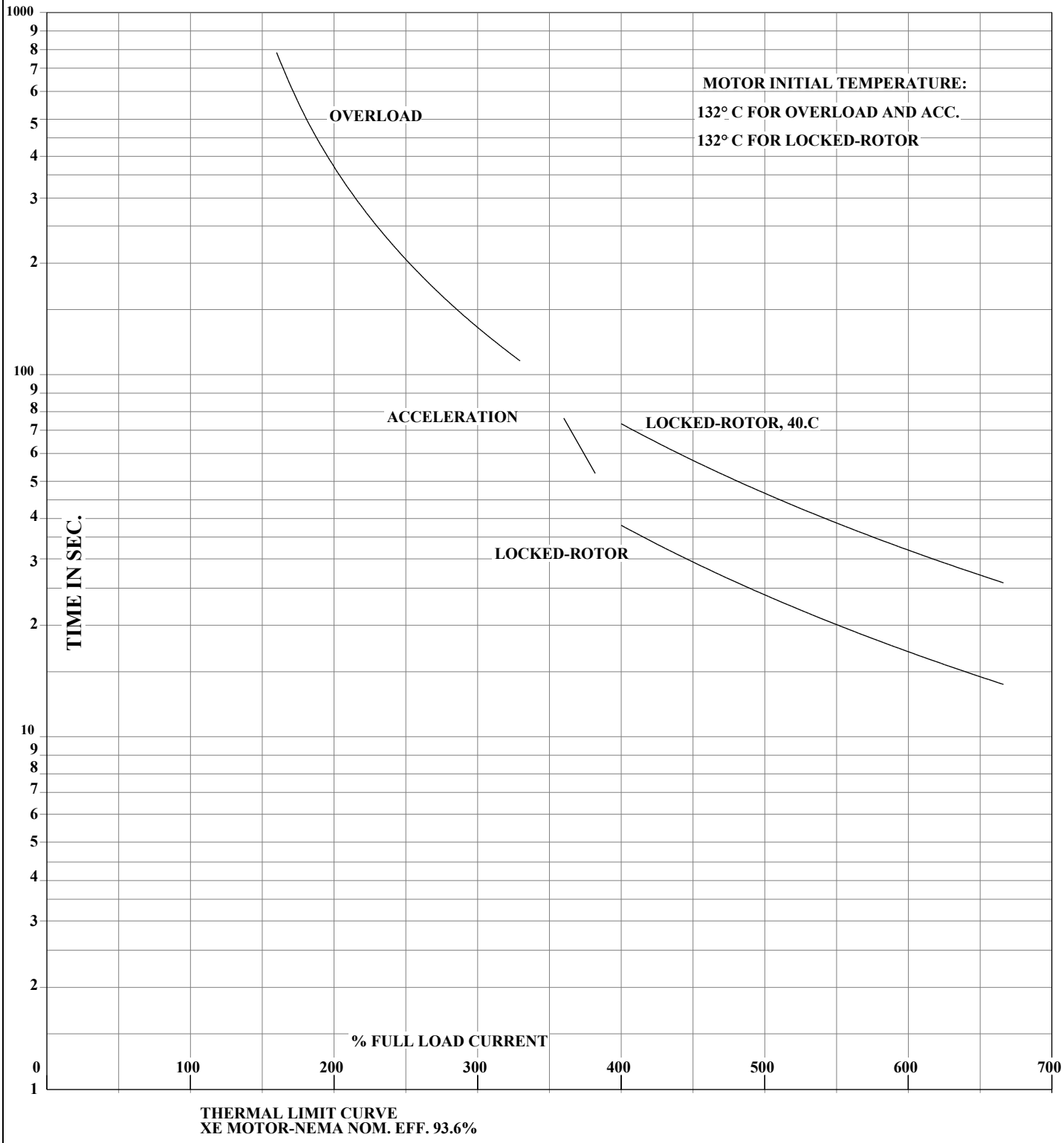
RPM 3555	S.F. 1.15	ROTOR 418141005TE	
FRAME 365TS	VOLTS 230/460	NEMA DESIGN B	TEST S.O. TYPICAL DATA
HP 75	AMPS 161/80.7	CODE LETTER F	TEST DATE ---
TYPE P	DUTY CONT	ENCLOSURE TEFC	STATOR RES. @ 25°C .0186/.0744
PHASE / HERTZ 3/60	AMB °C / INSUL 40/F	E/S 892019	OHMS (BETWEEN LINES)



AMPERES SHOWN FOR 230/460 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

ABB	DRAWN BY: J. P. TSAO CHECKED BY: J. P. TSAO APPROVED BY: W.L.SMITH DATE: 09/30/22	AC MOTOR PERFORMANCE DATA	A36WG0107-R006 ISSUE DATE 09/30/22

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



THERMAL LIMIT CURVE
XE MOTOR-NEMA NOM. EFF. 93.6%

AMPERES SHOWN FOR 230/460 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

ABB	DRAWN BY: J. P. TSAO CHECKED BY: J. P. TSAO APPROVED BY: W.L.SMITH DATE: 09/30/22	AC MOTOR PERFORMANCE DATA	A36WG0107-R006 ISSUE DATE 09/30/22

617428-018

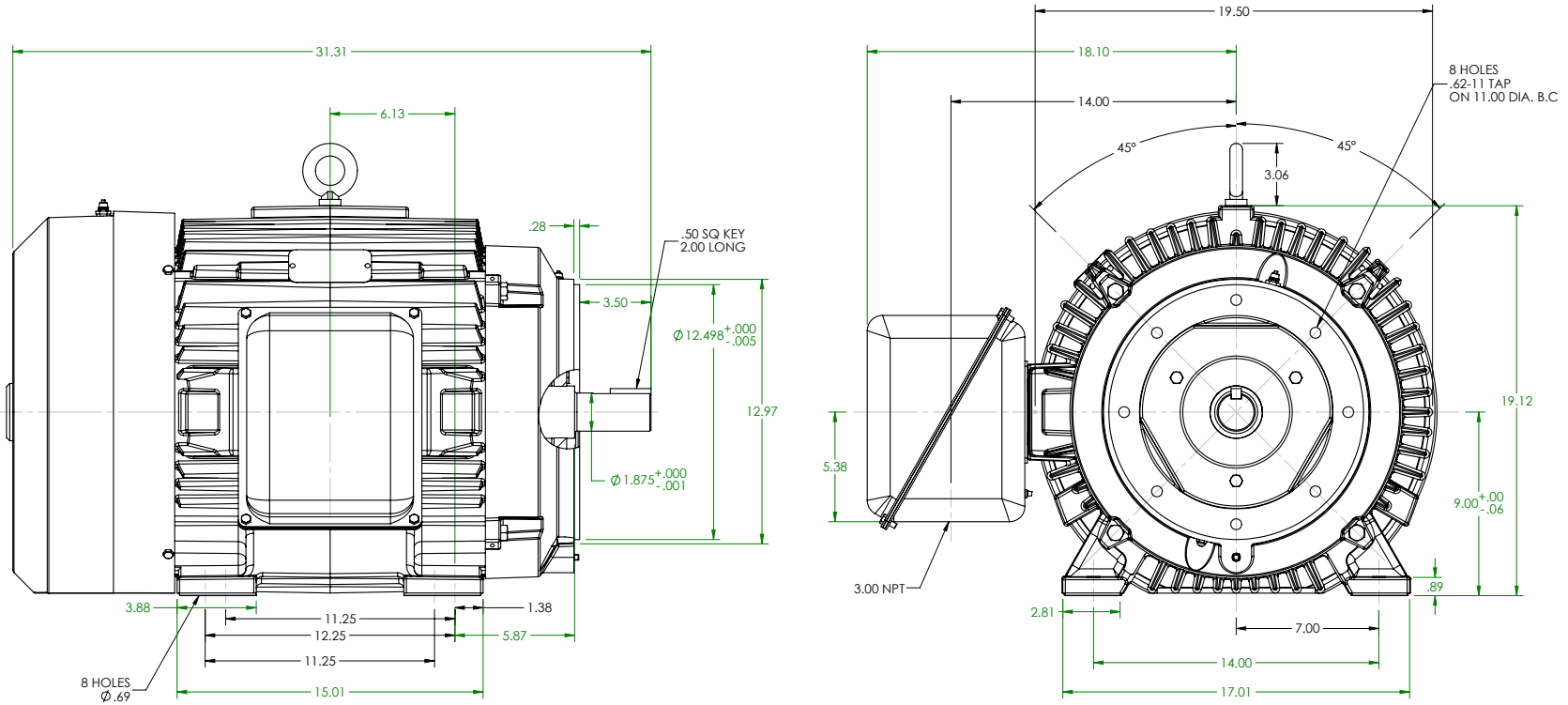
DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION
CAST IRON CONSTRUCTION

ENCLOSURE: TOTALLY ENCLOSED
MOUNTING: FOOT

FRAMES 364TSC-365TSC

COOLING: FAN COOLED



MAXIMUM PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF STD. SHAFT EXTENSION IS .002 T.I.R. UP TO AND INCLUDING 1.625 DIA AND .003 T.I.R. 1.625 DIA. TO 5 INCH DIA.

WEIGHT (LBS): 364TSC = 809
365TSC = 849

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: UPDATE DIM SHEET TO SHAFT DIM			
REV: B	VERSION: 02	REVISED: 02:12:43 03/11/2014	TDR: 000000843470
MODEL NO. 617428-018			REF:
BY: RAGAJH			B

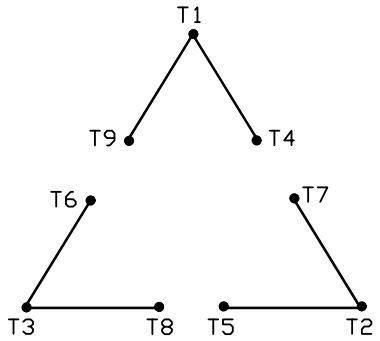
BALDOR

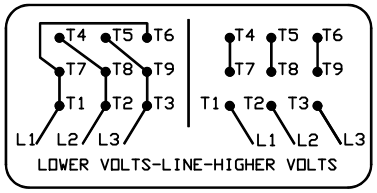
DIM SHEET 364-5TSC TEFC (611740-003-SH1)

617428-018

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