



Customer information packet

CEM4313T

75HP, 3555RPM, 3PH, 60HZ, 365TSC, A36068M, TEF

Class - None

Division - Not Applicable

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	CCSAUSEEV NEMA PREMIUM NEMA_PREMIUM UR
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

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

Lifting Lugs	Standard Lifting Lugs
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

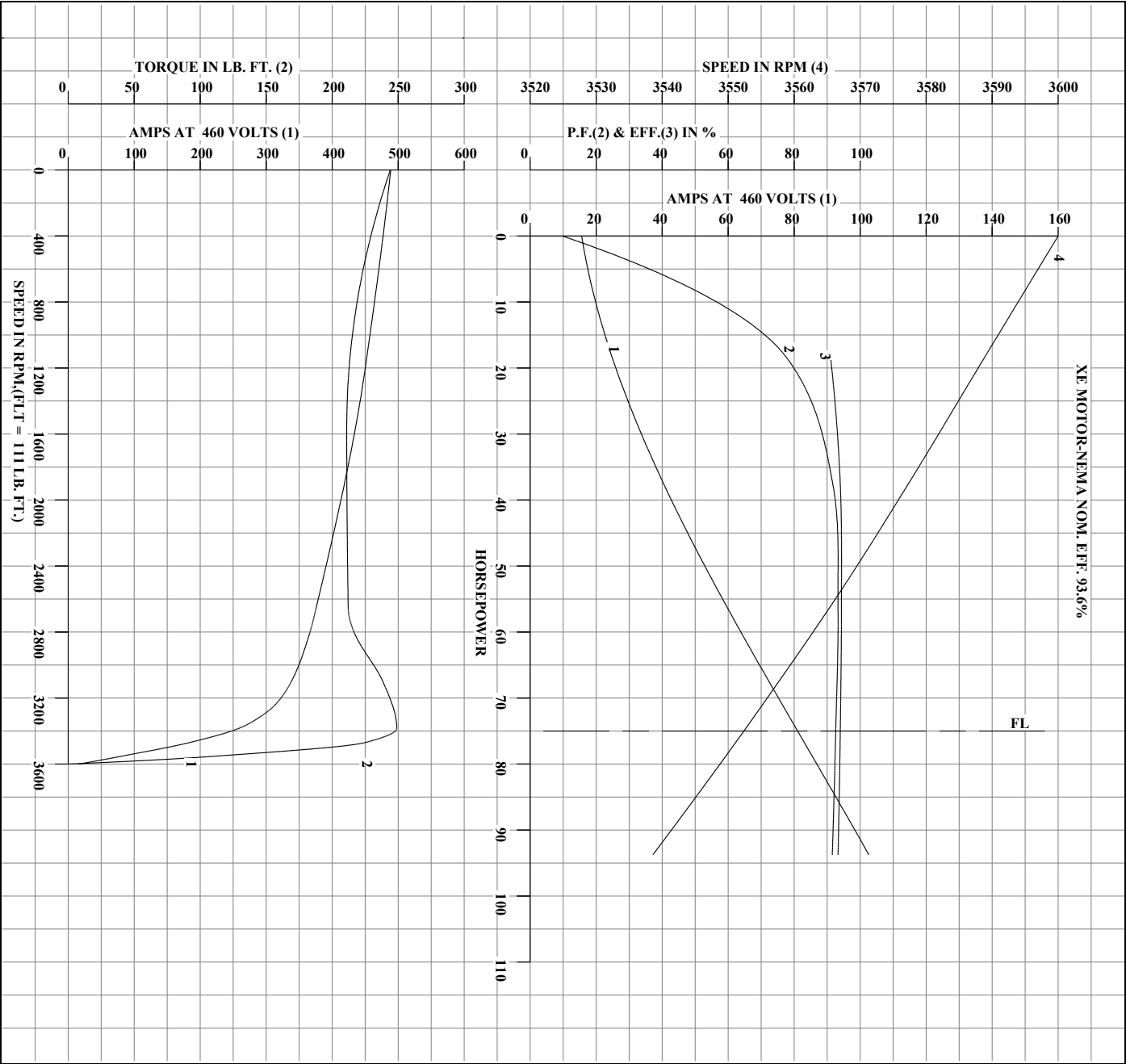
CAT #	CEM4313T				SER					CC	010A				
SPEC	P36G4677				RATING	40C AMB-CONT									
HZ	VOLTS		AMPS		RPM	HP	CODE	-	SF	DES	PF	NEMA NOM. EFF			
60	230/460		161/80.7		3555	75	F		1.15	B	92	%	93.6	%	
	-											%		%	
PH	3	CL	F	MAX CORR KVAR		5.00									
BRG	DE	6313		ODE	6313	ENCL	TEFC	FR	365TSC		54				
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 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	

US10TSA

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REL.S.O.	365TS	RPM	3555	S.F.	1.15	ROTOR	418141005TE
FRAME	75	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.



DRAWN BY: J.P. TSAO
CHECKED BY: J.P. TSAO
APPROVED BY: W.L. SMITH
DATE: 09/30/22

AC MOTOR
PERFORMANCE
DATA

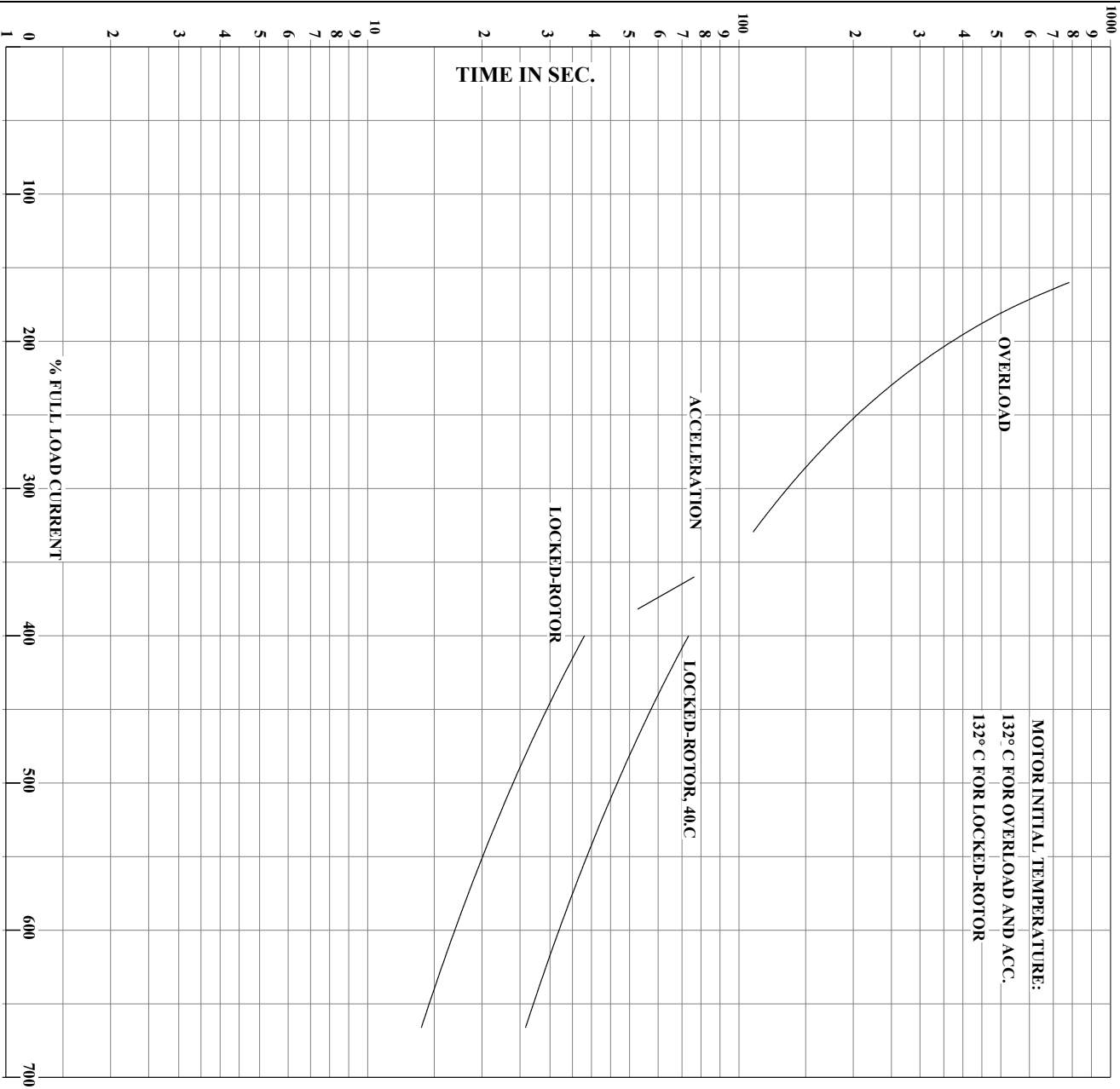
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ISSUE DATE 09/30/22

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REL.S.O.	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 TEF C	STATOR RES. @ 25°C .0186/.0744
PHASE / HERTZ 3/60	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.

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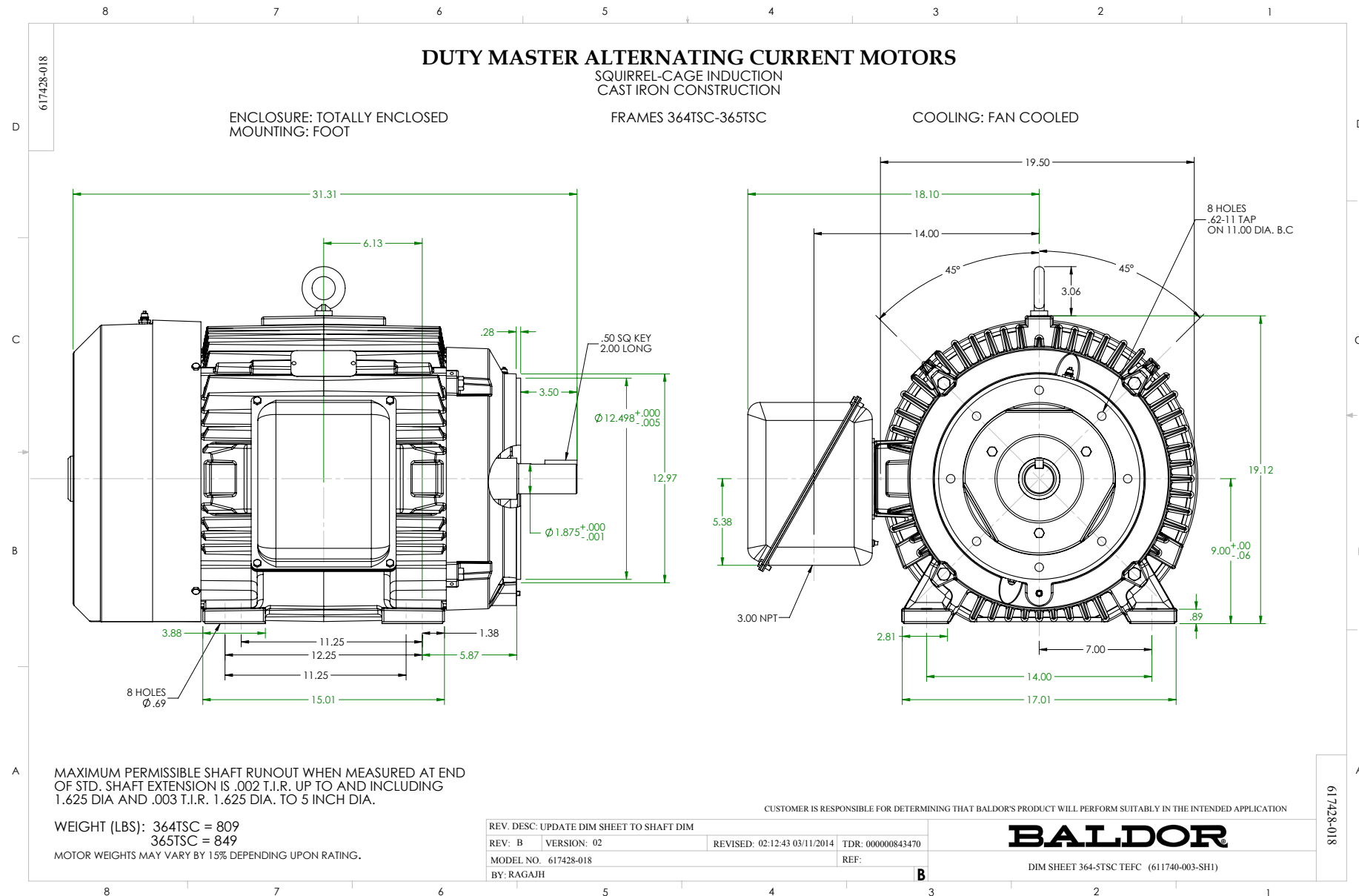
DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION CAST IRON CONSTRUCTION

FRAMES 364TSC-365TSC

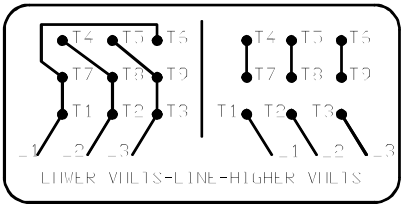
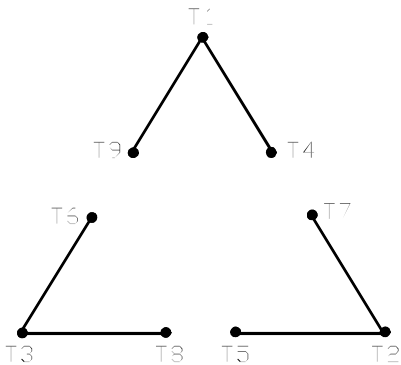
COOLING: FAN COOLED

ENCLOSURE: TOTALLY ENCLOSED
MOUNTING: FOOT



416820-002

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



(N.P. 1575-B)

REV. DESC: FONT CHANGE FOR PDF SEARCHABLE		
REV. LTR: A	VERSION: 01	TDR: 000001009382
FILE: \MGA\00000\661	REVISED: 02:46:19 02/13/2020	BY: MGHMTT
MTL: —	⊗ ◻	

BALDOR - RELIANCE®

CONN DIAG — STANDARD 9 LEAD, DELTA-CONNECTED
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