



Customer information packet

ECTM4312T-5G

50HP, 1185RPM, 3PH, 60HZ, 364T, A36062M, TEFC

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	364T
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	50.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 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)
Current @ Voltage	49.300 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.1 %
Feedback Device	NO FEEDBACK
Heater Indicator	Heater Included, 115 V
High Voltage Full Load Amps	49.3 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Motor Lead Quantity/Wire Size	3 @ 6 AWG
Motor Standards	NEMA
Motor Type	A36062M
Mounting Arrangement	F1

Part detail

Revision	B
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A36WG0748
Layout	617438-196
Eff. date	06-06-2023
CD Diagram	416820-036
Poles	06
Leads	3#6
Proprietary	False
Created date	04-12-2022

Number of Poles	6
Overall Length	33.78 IN
Power Factor	81
Product Family	Cooling Tower
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.15
Shaft Diameter	2.374 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1185 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

000613007EW												
CAT.NO.	ECTM4312T-5G				SPEC NO.		A36-0001-0748					
HP	50HP	AMPS	49.3			VOLTS		575		DESIGN	B	
FRAME	364T	RPM	1185			HZ	60	AMB	40	SF	1.15	
DRIVE END BEARING	65BC03JGG30A			PH	3	DUTY	CONT		INSUL.CLASS		F	
OPP D.E. BEARING	65BC03JGG30A			TYPE	P	ENCL	TEFC		CODE	G		
D.E.BRG.DATA	6313			POWER FACTOR			81		NEMA NOM EFFICIENCY			94.1
O.D.E.BRG.DATA	6313			MAX CORR KVAR			14		GUARANTEED EFFICIENCY			93
3/4 LOAD EFF.	94.1		NEMA NOM/CSA QUOTED EFF									
SER.NO.					MOTOR WEIGHT							

000901002AAA	
INV DUTY 20:1 VT	

S/O	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	365T	50	P	3/60	1185	575
AMPS	DUTY	AMB °C/ INSUL	S.F.	NEMA DESIGN	CODE LETTER	ENCLOSURE
49.3	CONT	40/F	1.15	B	G	TEFC
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)		
892105	418141-88JE	---	---	.217		

PERFORMANCE					
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY
NO LOAD	0	17.0	1200	4.99	0
1/4	12.5	20.9	1197	49.3	90.9
2/4	25.0	28.5	1193	70.1	94.0
3/4	37.5	38.2	1190	77.9	94.4
4/4	50.0	49.3	1186	80.6	94.1
5/4	62.5	61.4	1182	81.6	93.4

SPEED TORQUE					
	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES	
LOCKED ROTOR	0	159	352	283	
PULL UP	540	144	319	251	
BREAKDOWN	1134	219	485	152	
FULL LOAD	1186	100	221	49.3	

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

TYPICAL DATA
NEMA NOM. EFF. 94.1 %
GUARANTEED MIN. EFF. 93.6%

	DRAWN BY: W.L. SMITH CHECKED BY: J.J. HARRISON APPROVED BY: W.L. SMITH DATE: 12/07/05	AC MOTOR PERFORMANCE DATA	A36WG0748-R001 DATE ISSUED 12/15/10
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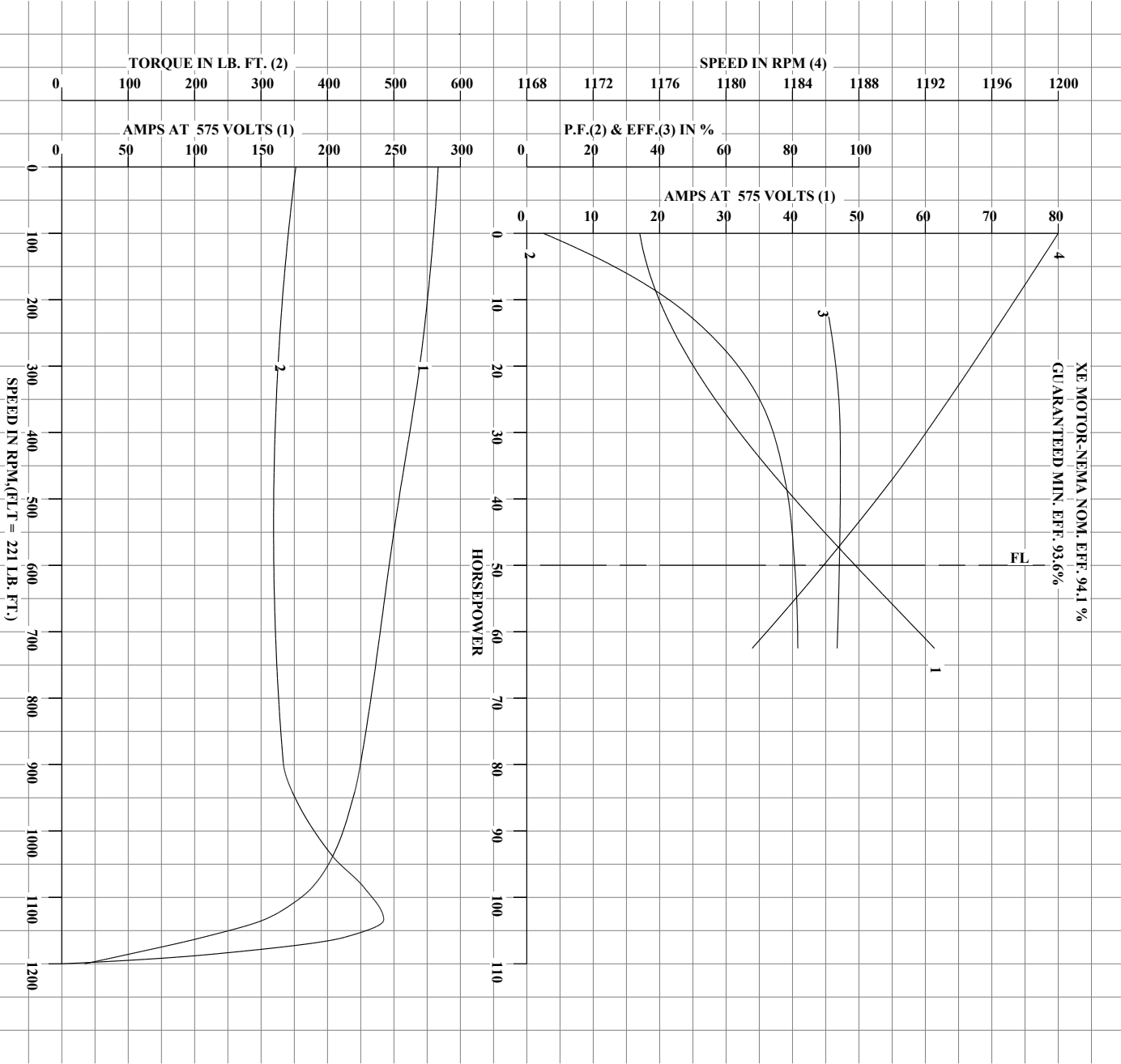
DRAWN BY: W.L.SMITH
CHECKED BY: J.J.HARRISON
APPROVED BY: W.L.SMITH
DATE: 12/07/05

AC MOTOR
PERFORMANCE
DATA

A36WCG0748-R001
ISSUE DATE 12/15/10

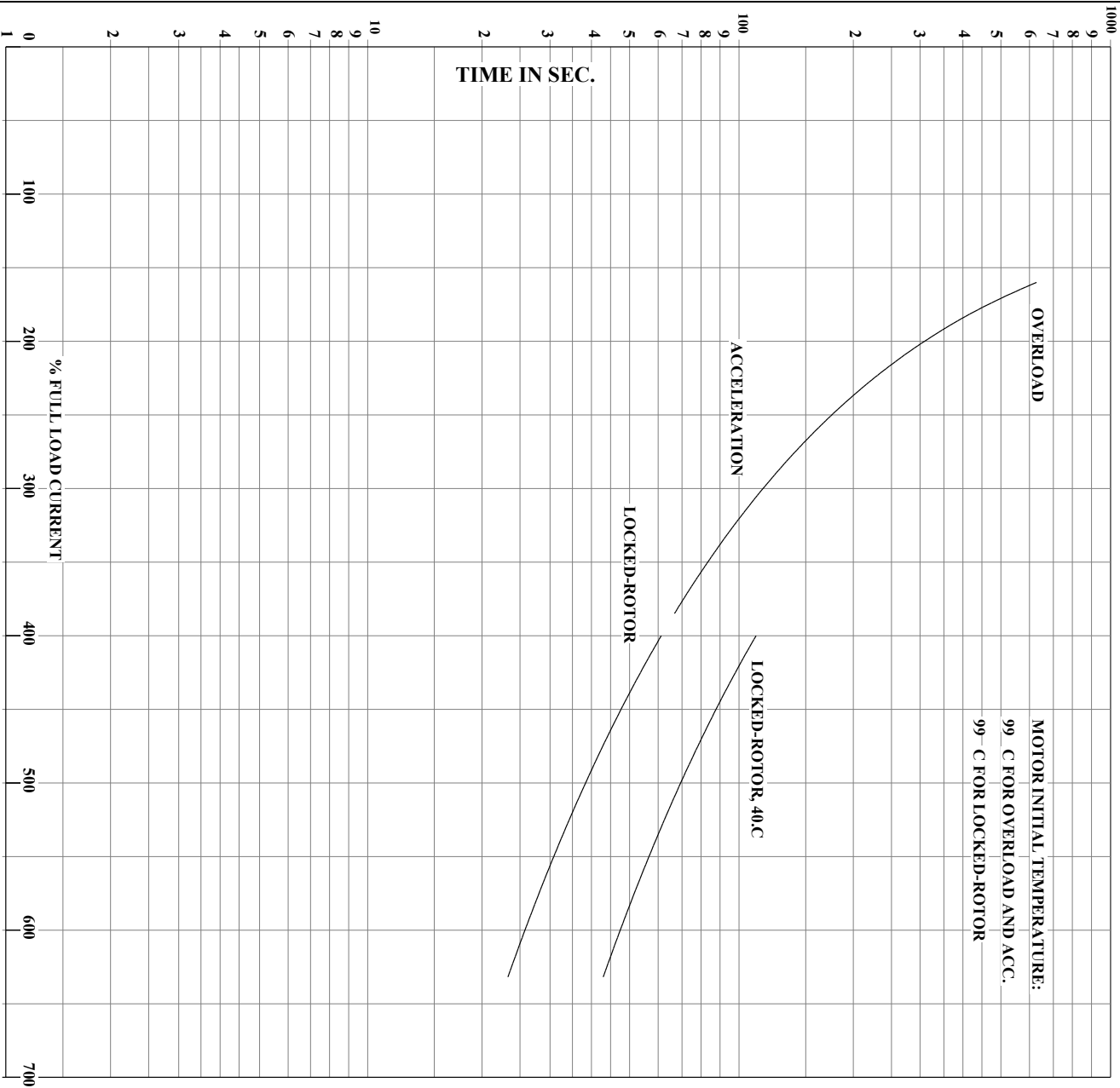
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AMPERES SHOWN FOR 575 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.



REL.S.O.	FRAME 365T	HP 50	TYPE P	PHASE / HERTZ 3/60	RPM 1185	VOLTS 575	AMPS 49.3	DUTY CONT	AMB °C / INSUL. 40/F	S.F. 1.15	NEMA DESIGN B	CODE LETTER G	ENCLOSURE TEFC	ROTOR 418141-88JE	TEST S.O. TYPICAL DATA	TEST DATE --	STATOR RES. @ 25°C .217	OHMS (BETWEEN LINES)
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REL.S.O.	RPM 1185	S.F. 1.15	ROTOR 418141-88JE
FRAME 365T	VOLTS 575	NEMA DESIGN B	TEST S.O. TYPICAL DATA
HP 50	AMPS 49.3	CODE LETTER G	TEST DATE --
TYPE P	DUTY CONT	ENCLOSURE TEFC	STATOR RES. @ 25°C .217
PHASE / HERTZ 3/60	AMB °C / INSUL. 40/F	E/S 892105	OHMS (BETWEEN LINES)



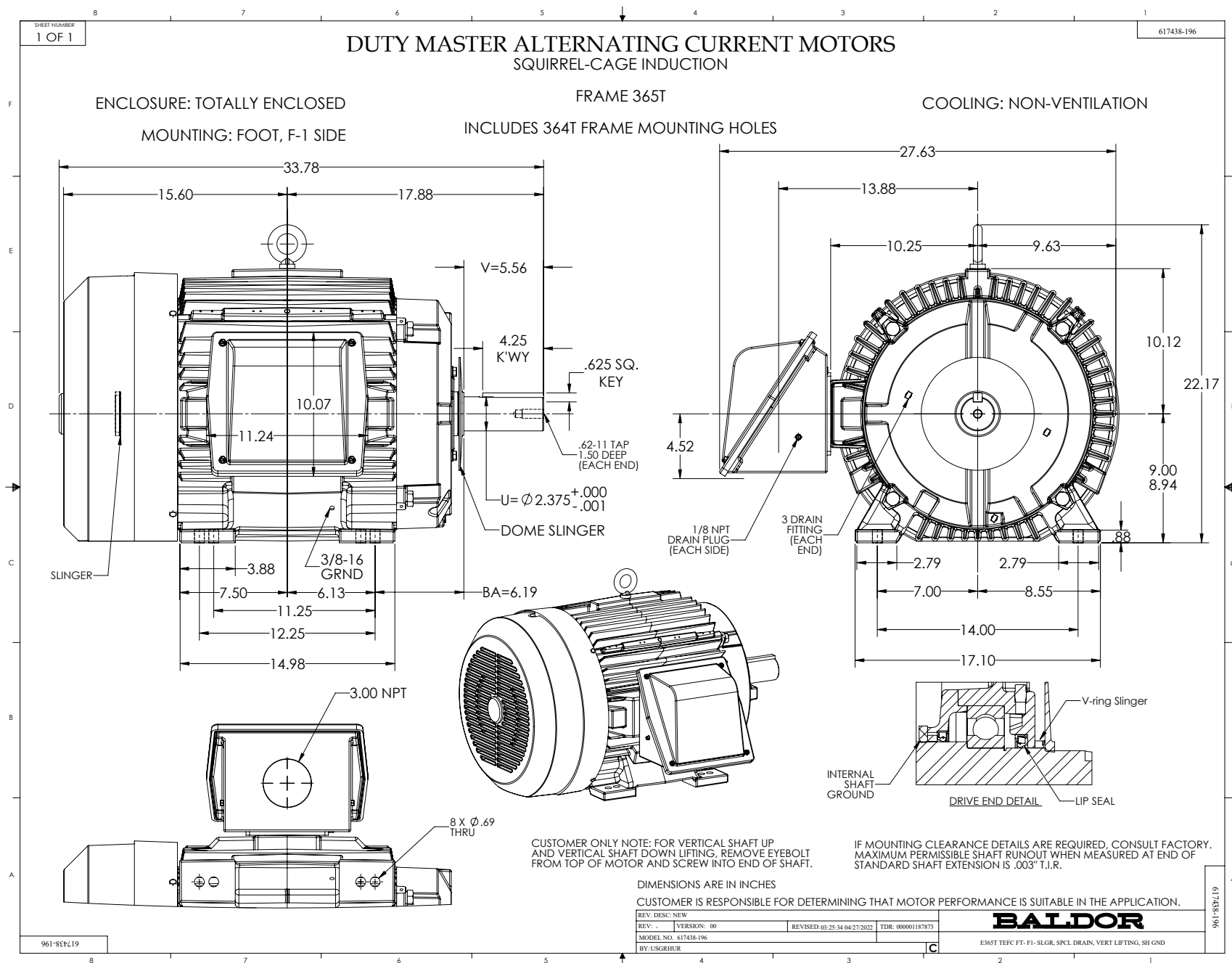
THermal LIMIT CURVE
XE MOTOR-NEMA NOM. EFF. 94.1 %

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

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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		
REV. LTR: -	VERSION: 00	TDR: 000000538207
FILE: \MGA\00000\682		REVISED: 11: 54: 06 04/30/2010
MTL: -		BY: RAGRA

BALDOR

CONN DIAG - STANDARD 3 LEAD
SH 1 of 1