

ABB BALDOR RELIANCE III

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	

ABB BALDOR RELIANCE III							CUSTOMER INFORMATION PACKET							ECTM4312T-5G - 50HP, 1185RPM, 3PH, 60HZ, 364T, A36062M, TEFC						
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 XE MOTOR-NEMA NOM. EFF. 94.1 % GUARANTEED MIN. EFF. 93.6%																				
						DRAWN BY: <u>W. L. SMITH</u> CHECKED BY: <u>J.J.HARRISON</u> APPROVED BY: <u>W. L. SMITH</u> DATE: <u>12/07/05</u>						AC MOTOR PERFORMANCE DATA			A36WG0748-R001 DATE ISSUED 12/15/10					

FRAME 365T

HP 50

TYPE	P
1	0.0000
2	0.0000
3	0.0000
4	0.0000
5	0.0000
6	0.0000
7	0.0000
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98	0.0000
99	0.0000
100	0.0000

PHASE / HERTZ 3/60

CUSTOMER INFORMATION PACKET

INFORMATIC

VOLTS 575

AMPS 49.3

DUTY CONT

AMB °C / INSUL 40/F

ECTM4312T-5G, 50HP, 1185RPM, 3PH, 60HZ, 364T, A36062M, TEFC

4312T-5G15

NEMA DESIGN B

CODE LETTER G

ENCLOSURE TEFC

E/S 892105

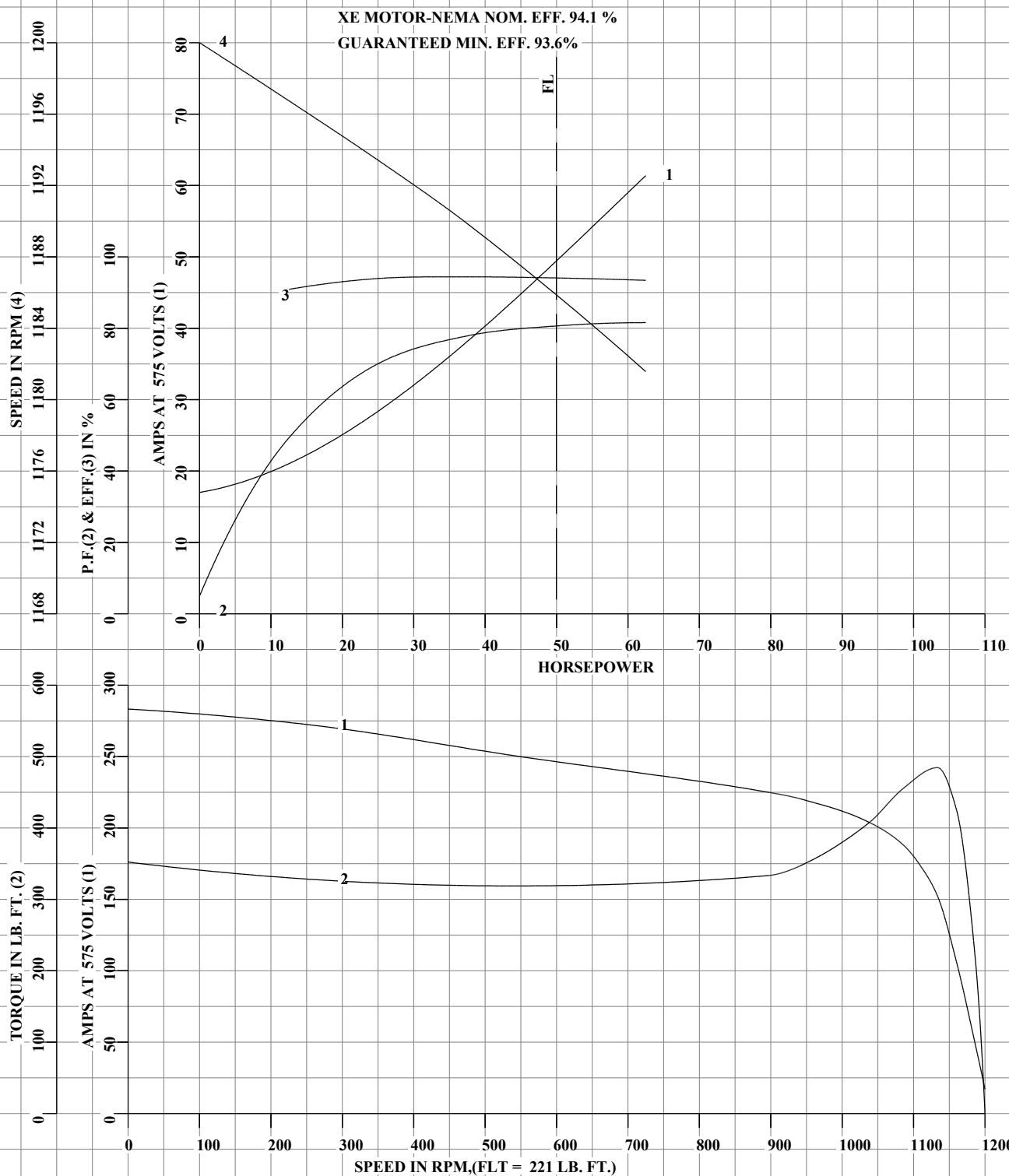
60HZ 364T A36062M T
POTOP 4180488JE

TEST S.O. TYPICAL DATA

TEST DATE --

STATOR RES. @ 25°C .217

OHMS (BETWEEN LINES)



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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AC MOTOR PERFORMANCE DATA

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ISSUE DATE 12/15/10

FRAME 365T

RPM 1185

S.F. F15

ROTOR 418141-88JE

HP 50

VOLTS 575

NEMA DESIGN B

TEST S.O. TYPICAL DATA

TYPE P

AMPS 49.3

CODE LETTER G

TEST DATE ---

PHASE / HERTZ 3/60

DUTY CONT

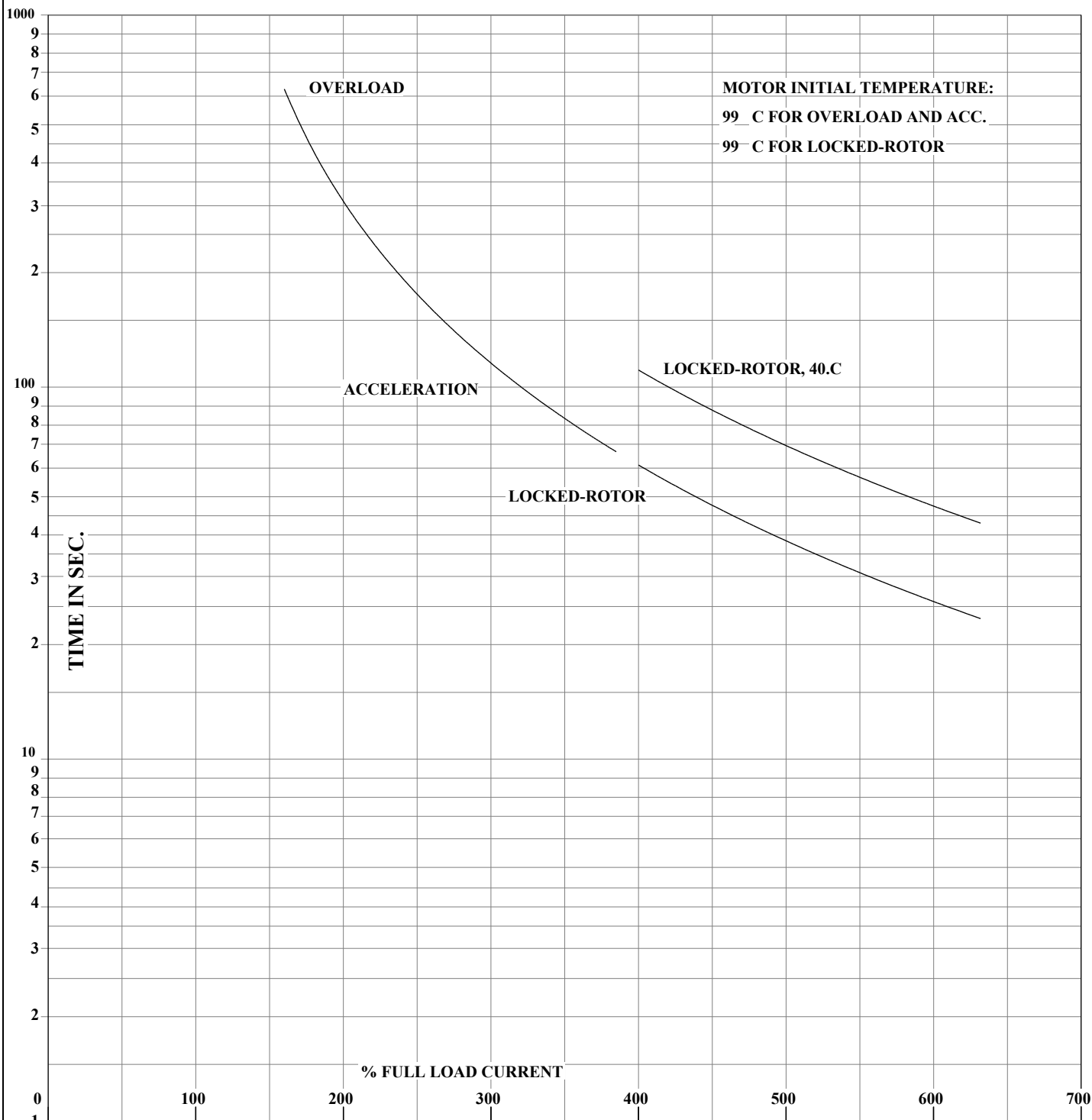
ENCLOSURE TEFC

STATOR RES. @ 25°C .217

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.

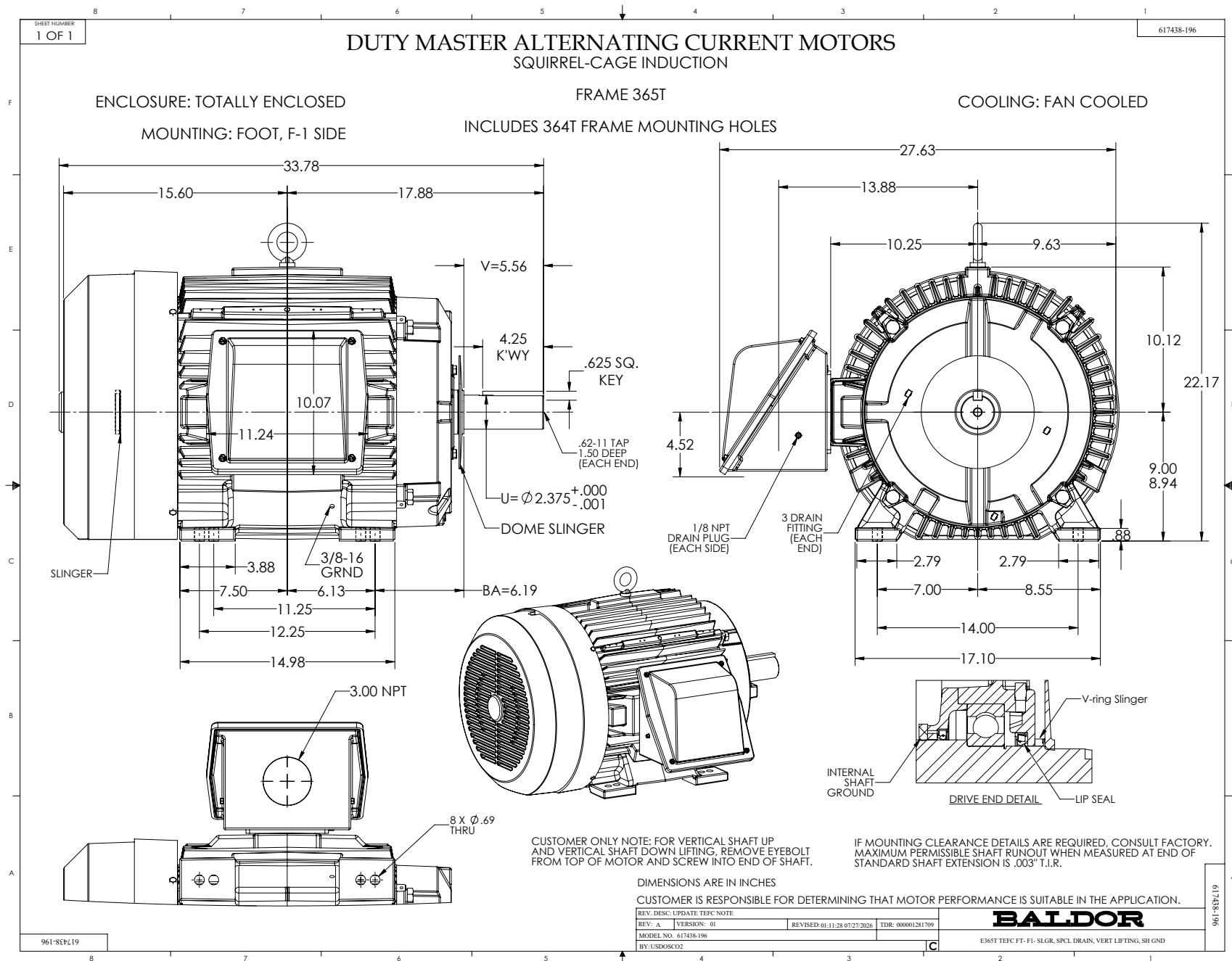


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AC MOTOR
 PERFORMANCE
 DATA

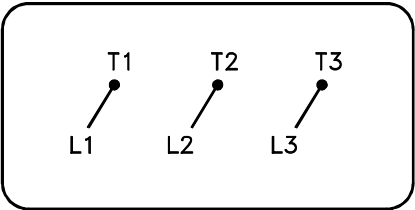
A36WG0748-R001

ISSUE DATE 12/15/10



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