



Customer information packet

ECTM4400T-4G

100HP, 1785RPM, 3PH, 60HZ, 405T, A40064M, TEFC

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	405T
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	100.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 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	112.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.4 %
Feedback Device	NO FEEDBACK
Heater Indicator	Heater Included, 115 V
High Voltage Full Load Amps	112.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Motor Lead Quantity/Wire Size	3 @ 2 AWG
Motor Standards	NEMA
Motor Type	A40064M
Mounting Arrangement	F1

Part detail

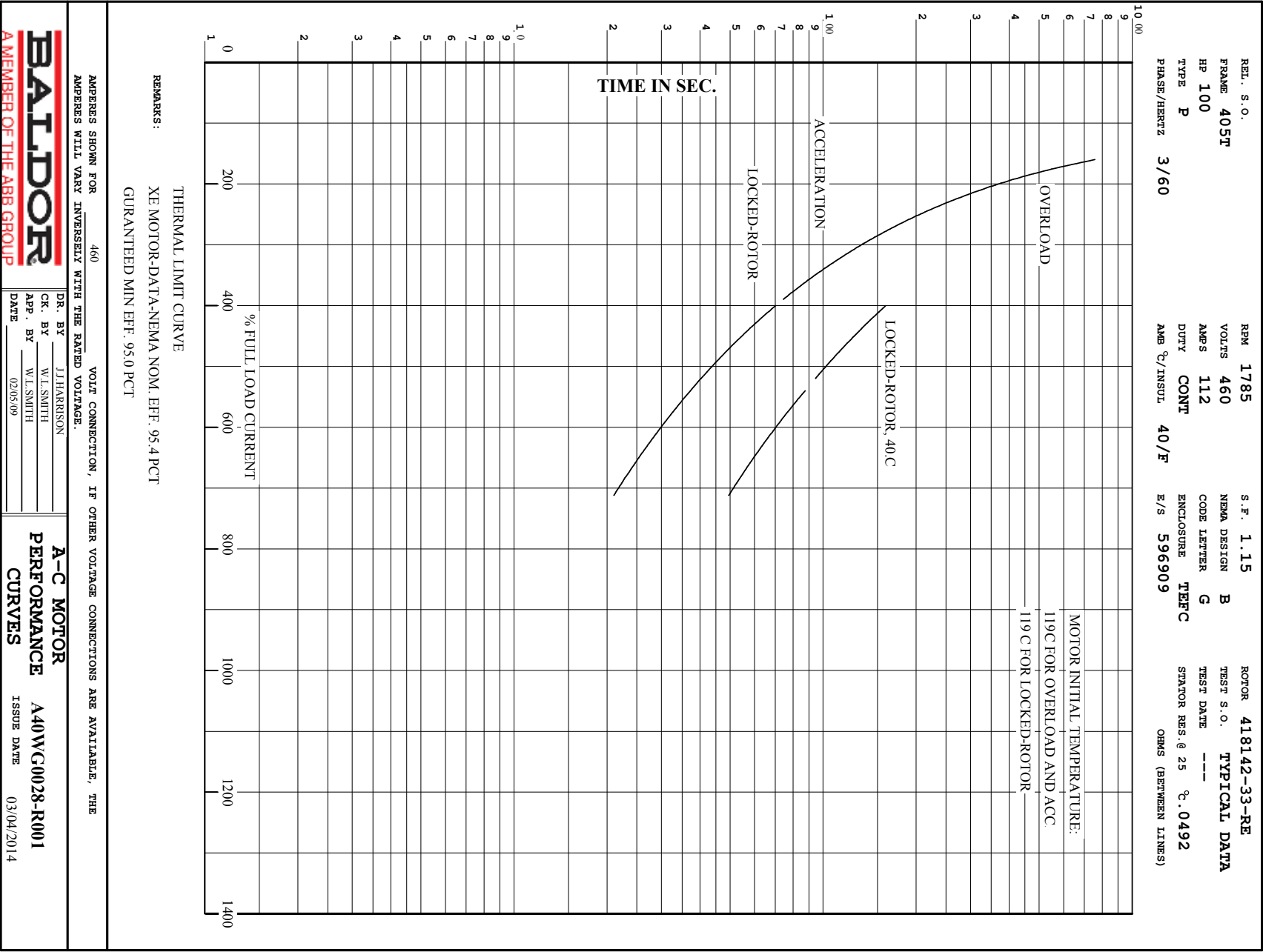
Revision	A
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A40WG0028
Layout	617433-750
Eff. date	06-06-2023
CD Diagram	416820-036
Poles	04
Leads	3#2
Proprietary	False
Created date	04-13-2022

Number of Poles	4
Overall Length	38.19 IN
Power Factor	87
Product Family	Cooling Tower
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.15
Shaft Diameter	2.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1785 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

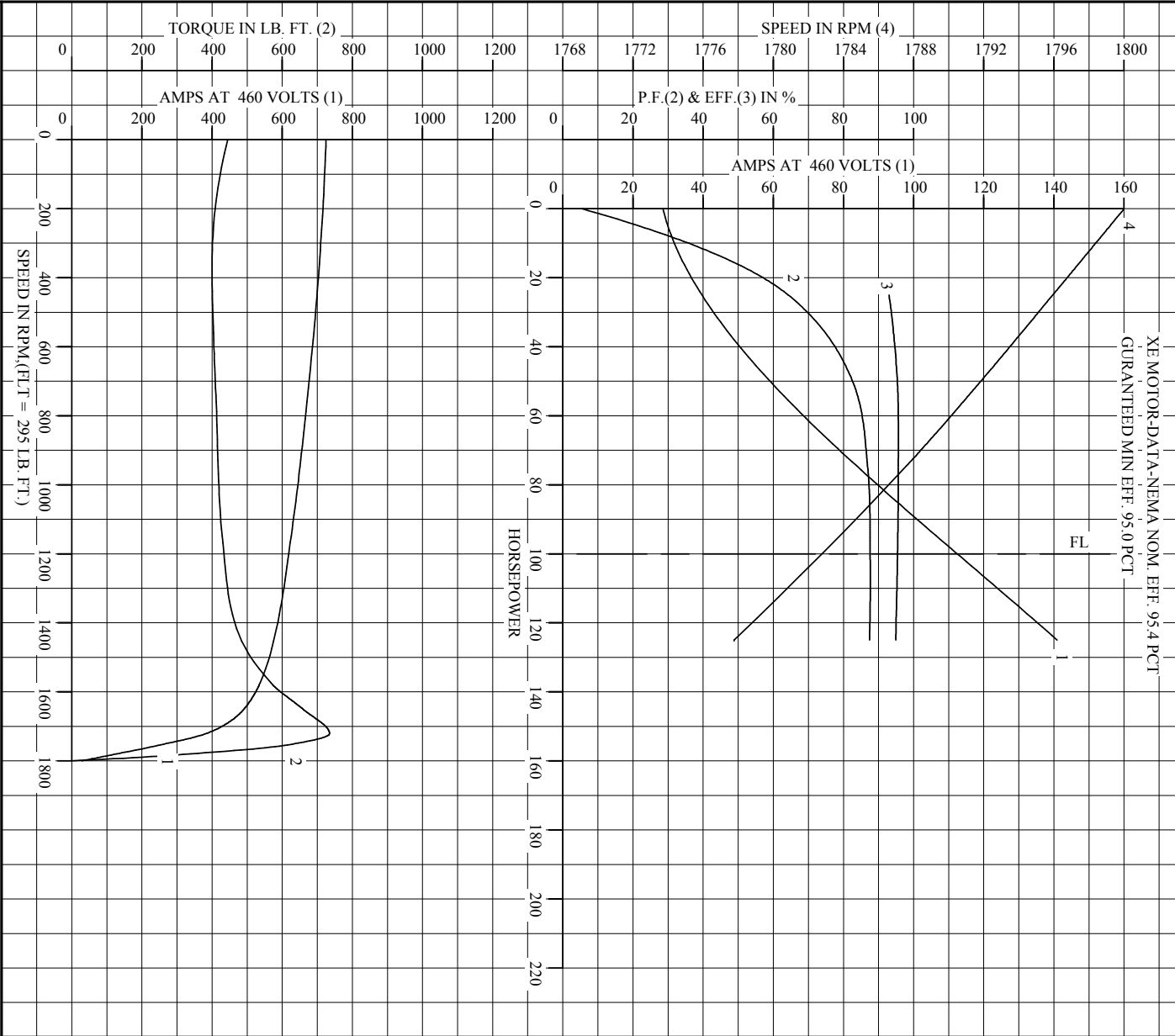
000613007EW														
CAT.NO.	ECTM4400T-4G				SPEC NO.		A40-0001-0028							
HP	100HP	AMPS		112		VOLTS		460		DESIGN		B		
FRAME	405T	RPM		1785		HZ		60	AMB		40	SF	1.15	
DRIVE END BEARING	80BC03J30X			PH	3	DUTY		CONT		INSUL.CLASS		F		
OPP D.E. BEARING	80BC03J30X			TYPE		P	ENCL		TEFC		CODE		G	
D.E.BRG.DATA	6316			POWER FACTOR				87		NEMA NOM EFFICIENCY				95.4
O.D.E.BRG.DATA	6316			MAX CORR KVAR				18.00		GUARANTEED EFFICIENCY				94.5
3/4 LOAD EFF.	95.4		NEMA NOM/CSA QUOTED EFF											
SER.NO.					MOTOR WEIGHT									

000901002AAA	
INV DUTY 20:1 VT	



REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	405T	100	P	3/60	1785	460
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
112	CONT	40/F	1.15	B	G	TEFC
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)		
596909	418142-33-RE	---	---	.0492		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY	
NO LOAD	0	28.7	1800	5.48	0	
1/4	25.0	39.2	1796	64.3	93.0	
2/4	50.0	59.4	1792	82.6	95.4	
3/4	75.0	84.4	1788	86.9	95.7	
4/4	100	112	1783	87.6	95.4	
5/4	125	141	1778	87.4	94.9	
SPEED TORQUE						
	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES		
LOCKED ROTOR	0	151	445	725		
PULL UP	360	136	400	706		
BREAKDOWN	1721	250	735	382		
FULL LOAD	1783	100	295	112		
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-DATA-NEMA NOM. EFF. 95.4 PCT GURANTEED MIN EFF. 95.0 PCT						
 A MEMBER OF THE ABB GROUP		DR. BY J. J. HARRISON CK. BY W. L. SMITH APP. BY W. L. SMITH DATE 02/05/09		A-C MOTOR PERFORMANCE DATA A40WG0028-R001 ISSUE DATE 03/04/20		

REL. S. O.		RPM	1785	S. F.	1.15	ROTOR	418142-33-RE
FRAME	405T	VOLTS	460	NEMA DESIGN	B	TEST S. O.	TYPICAL DATA
HP	100	AMPS	112	CODE LETTER	G	TEST DATE	---
TYPE	P	DUTY	CONT	ENCLOSURE	TEFC	STATOR RES. @ 25 °C	.0492
PHASE/HERTZ	3/60	AMB °C/INSUL	40/F	E/S	596909	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. HARRISON
CK. BY W. L. SMITH
APP. BY W. L. SMITH
DATE 02/05/09

A-C MOTOR PERFORMANCE CURVES
A40W G0028-R001
ISSUE DATE 03/04/2014

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

ENCLOSURE: TOTALLY ENCLOSED

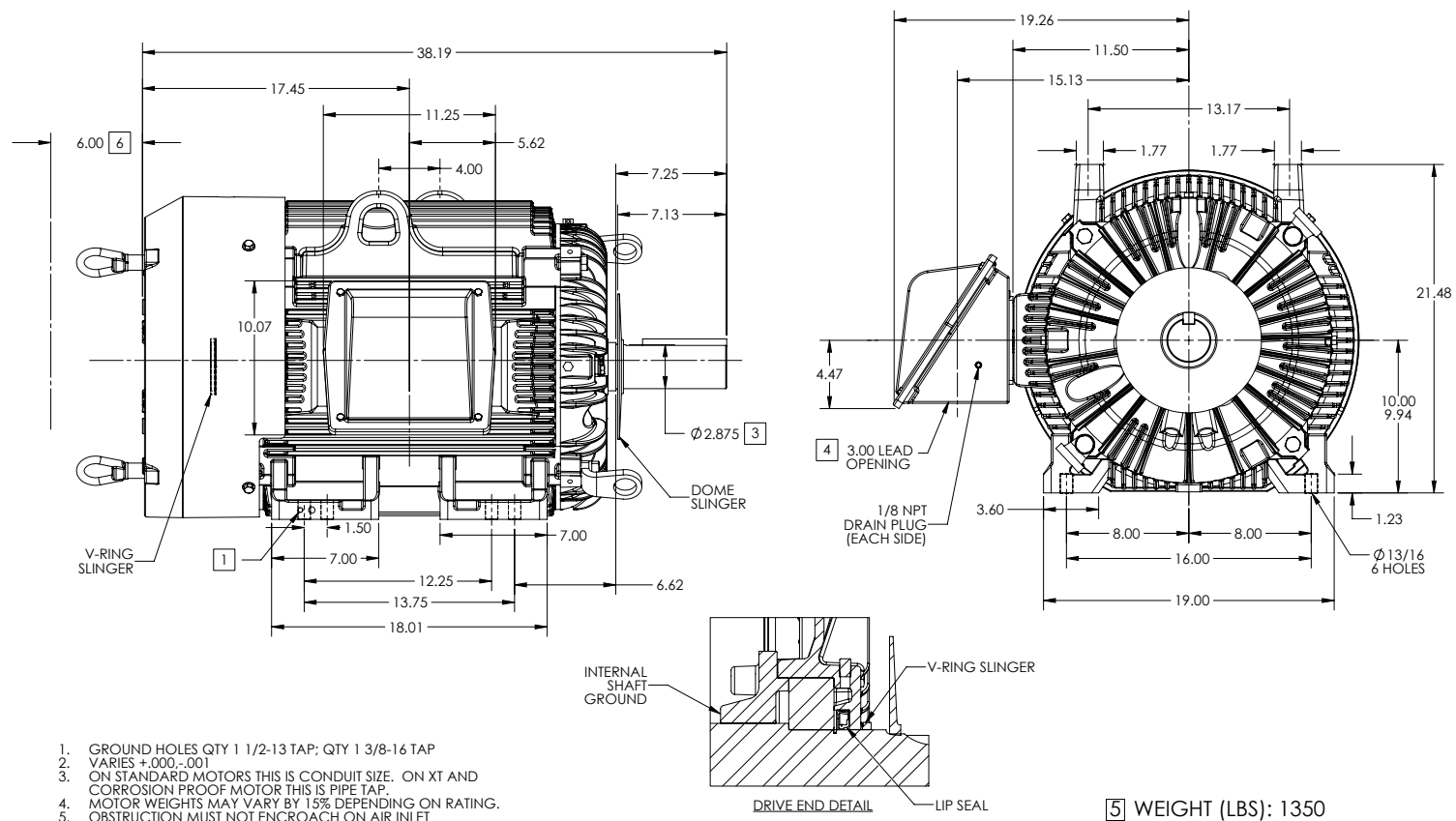
FRAME G405T ABOVE NEMA RATINGS

COOLING: FAN COOLED

MOUNTING: FOOT

INCLUDES 404T FRAME MOUNTING HOLES

STANDARD INDUSTRIAL ENCLOSURE

SHEET NUMBER
1 OF 1

05C-137L19

416820-036

A-C MOTOR
CONNECTION DIAGRAM
STANDARD 3 LEAD CONNECTED



(N.P. 1575-BA)

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

416820-036