

ABB BALDOR RELIANCE III

Customer information packet

ECP4113T-4

30HP, 890RPM, 3PH, 60HZ, 364T, A36050M, TEFC, F

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	364T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP A,B,C,D
Haz Area Division	Division II
Motor Letter Type	Three Phase
Output @ Frequency	30.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	900 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)
Constant Torque Speed Range	6-60
Current @ Voltage	39.300 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	92.4 %
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3
Heater Indicator	No Heater
High Voltage Full Load Amps	39.3 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

Part Detail

Revision	Q
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A36WG0998
Layout	617428-034
Eff. date	10-24-2024
CD Diagram	416820-036
Poles	08
Leads	3#6
Proprietary	False
Created date	12-04-2013

Motor Type	A36050M
Mounting Arrangement	F1
Number of Poles	8
Overall Length	33.49 IN
Power Factor	77
Product Family	General Industrial
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.15
Shaft Diameter	2.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	890 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

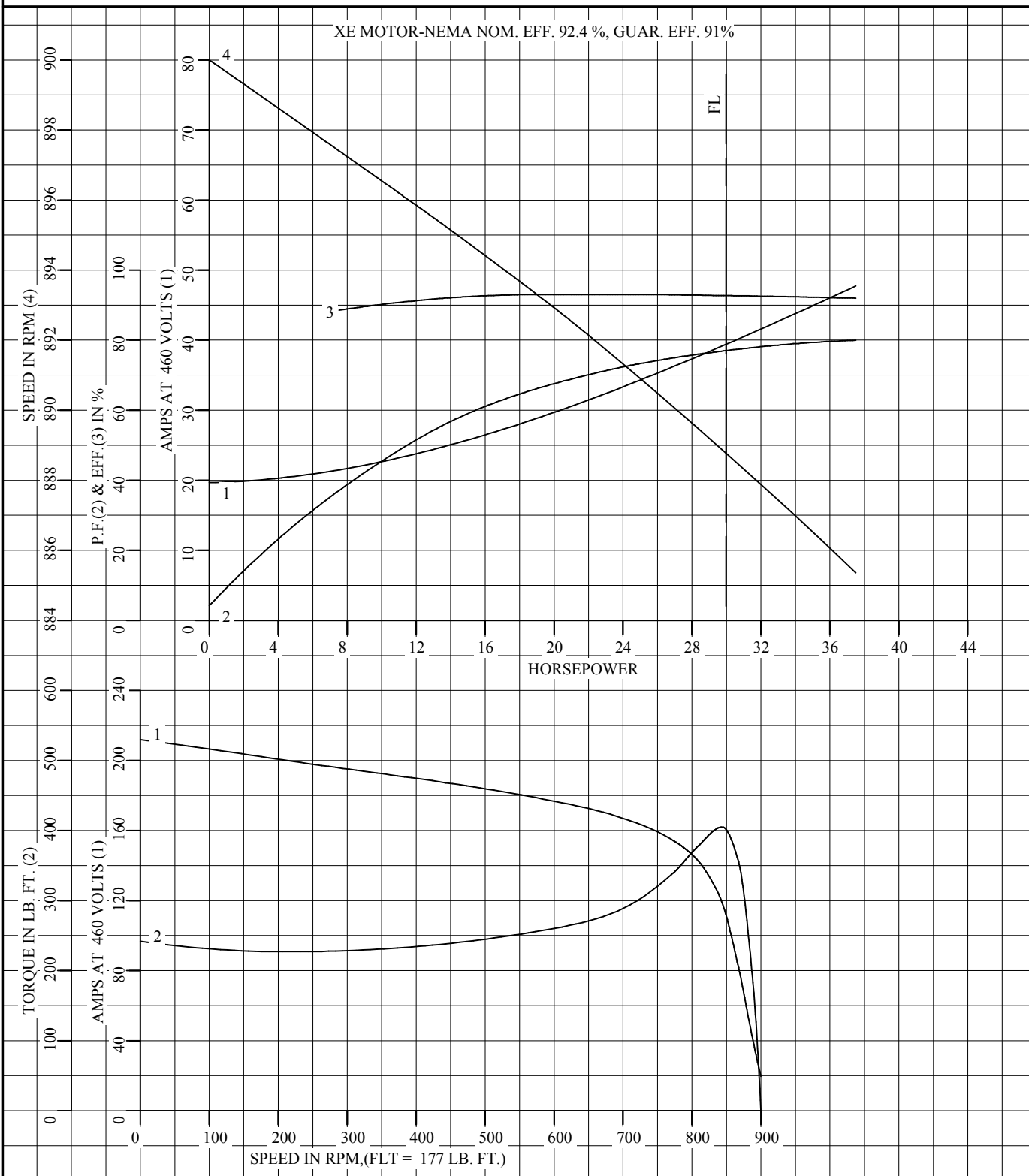
NP2496L	
MOBIL POLYREX EM	

NP3238

CAT NO	ECP4113T-4			SPEC NO.		A36-5065-0998						
HP	30	AMPS	39.3	VOLTS		460		DESIGN	B			
FRAME	364T	RPM	890	HZ	60	AMB	40	SF	1.15			
D.E. BRG.DATA	6313	O.D.E. BRG.DATA			6313		PH	3	DUTY	CONT	INSUL.CLASS	F
D.E. BRG.	65BC03J30X			TYPE	P	ENCL	TEFC	CODE	G			
O.D.E. BRG.	65BC03J30X			POWER FACTOR			77	NEMA NOM EFFICIENCY			92.4	
3/4 LOAD EFF.	93.0	MAX CORR KVAR			10.0		GUARANTEED EFFICIENCY			91		
TEMP CODE	T3	TEMP =		200								
CHP HZ	60-90	CT HZ	6-60	VT HZ		0-60						
INVERTER-TEMP-CODE	T3											
SER.NO.				MOTOR WEIGHT								

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS		
	364T	30	P	3/60	890	460		
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.		
39.3	CONT	40/F	1.15	B	G	TEFC		
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)				
591726	418141-73-AE	---	---	.271				
PERFORMANCE								
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY			
NO LOAD	0	19.7	900	4.21	0			
1/4	7.52	21.5	897	37.0	88.6			
2/4	15.0	25.7	895	59.1	92.4			
3/4	22.5	32.0	892	70.7	93.0			
4/4	30.0	39.3	889	77.0	92.7			
5/4	37.5	47.8	885	80.0	92.0			
SPEED TORQUE								
		RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES			
LOCKED ROTOR		0	137	242	212			
PULL UP		213	128	227	200			
BREAKDOWN		844	229	405	118			
FULL LOAD		889	100	177	39.3			
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-NEMA NOM. EFF. 92.4 %, GUAR. EFF. 91%								
		DR. BY	R.K. BRIDGES	A-C MOTOR PERFORMANCE DATA				
		CK. BY	W.L. SMITH					
		APP. BY	W.L. SMITH					
		DATE	05/23/14					
			A36WG0998-R001 ISSUE DATE 09/27/16					

REL S.O.	RPM 890	S.F. 1.15	ROTOR 418141-73-AE
FRAME 364T	VOLTS 460	NEMA DESIGN B	TEST S.O. TYPICAL DATA
HP 30	AMPS 39.3	CODE LETTER G	TEST DATE ---
TYPE P	DUTY CONT	ENCLOSURE TEFC	STATOR RES. @ 25 °C .271
PHASE/HERTZ 3/60	AMB °C/INSUL 40/F	E/S 591726	OHMS (BETWEEN LINES)



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

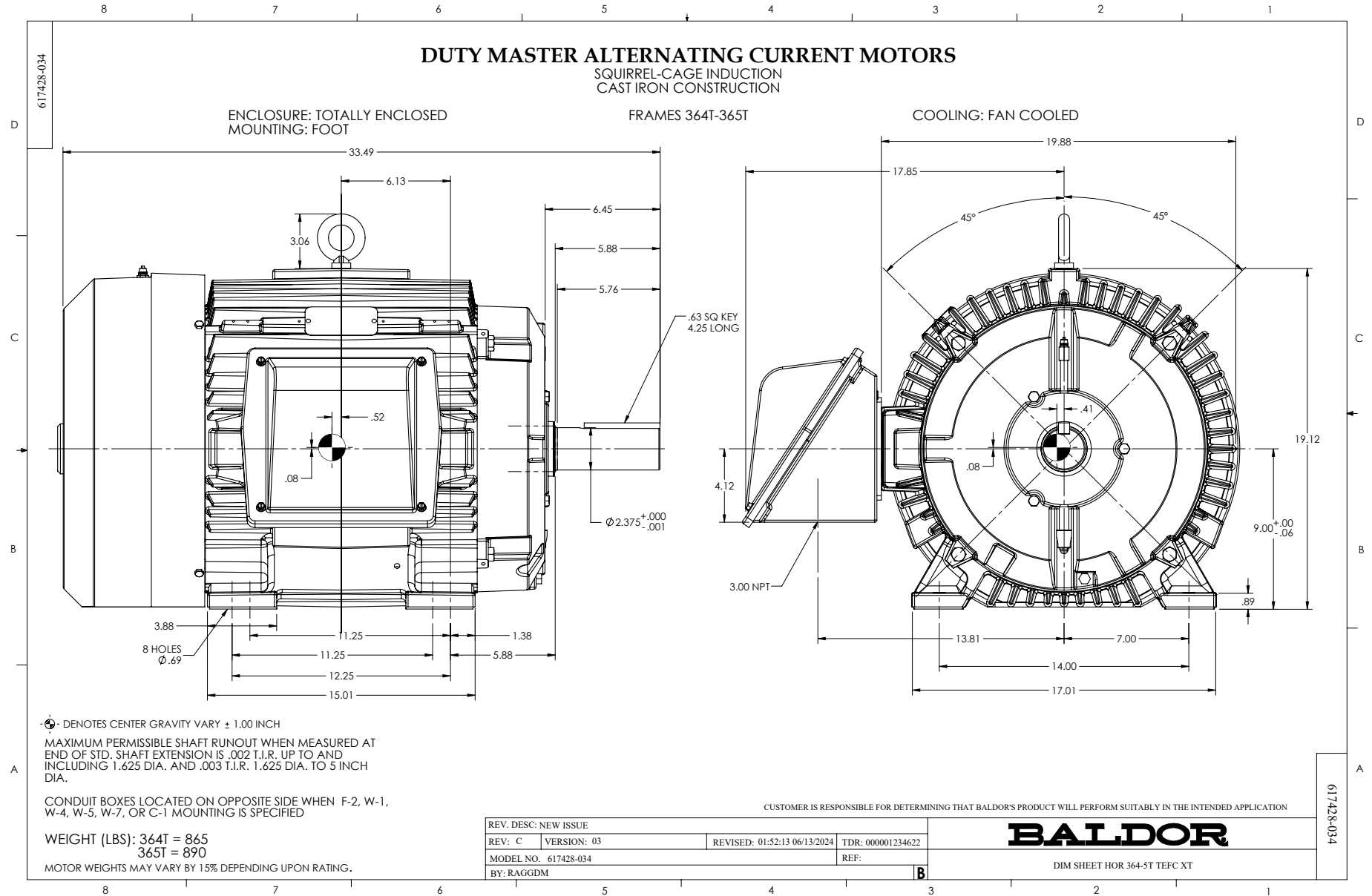
BALDOR
A MEMBER OF THE ABB GROUP

DR. BY R.K. BRIDGES
CK. BY W.L. SMITH
APP. BY W.L. SMITH
DATE 05/23/14

**A-C MOTOR
PERFORMANCE
CURVES**

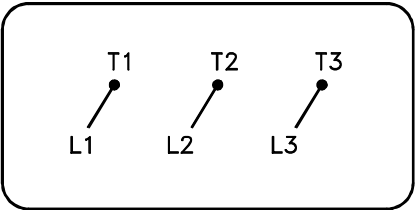
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416820-036

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