

ABB BALDOR RELIANCE III

Customer information packet

ECP4315T-4

40HP, 890RPM, 3PH, 60HZ, 365T, A36062M, TEFC, F

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	365T
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	40.000 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	52.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.0 %
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	52.0 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	P
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A36WG1042
Layout	617428-034
Eff. date	10-24-2024
CD Diagram	416820-036
Poles	08
Leads	3#6
Proprietary	False
Created date	12-13-2013

Motor Type	A36062M
Mounting Arrangement	F1
Number of Poles	8
Overall Length	33.44 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 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

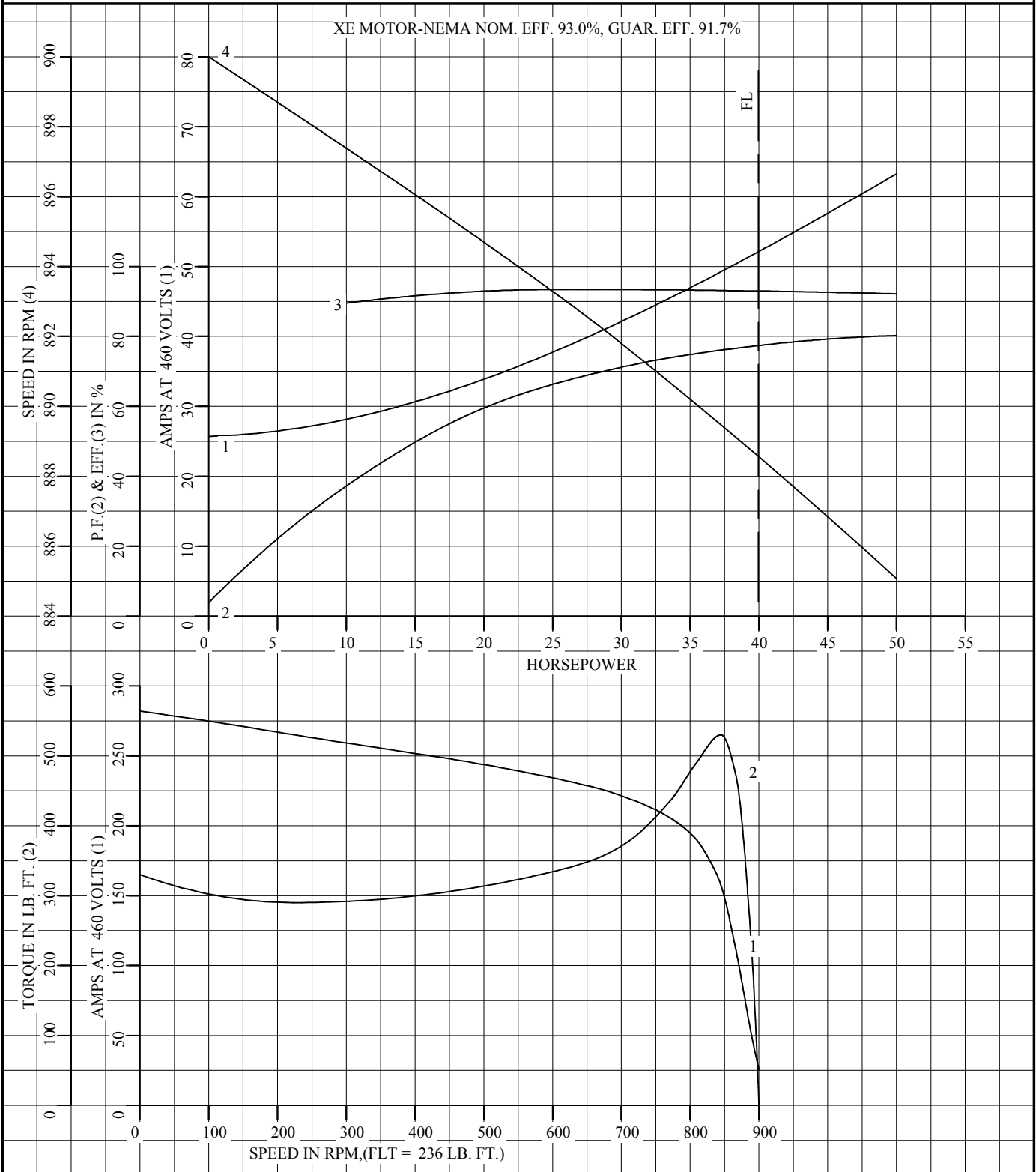
NP2496L	
MOBIL POLYREX EM	

NP3238

CAT NO	ECP4315T-4			SPEC NO.		A36-5084-1042						
HP	40	AMPS	52	VOLTS		460		DESIGN	B			
FRAME	365T	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			93	
3/4 LOAD EFF.	93.4	MAX CORR KVAR			15.0		GUARANTEED EFFICIENCY			91.7		
TEMP CODE	T3C	TEMP =		160								
CHP HZ	60-90	CT HZ	6-60	VT HZ		0-60						
INVERTER-TEMP-CODE	T3A											
SER.NO.				MOTOR WEIGHT								

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	365T	40	P	3/60	890	460
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
52	CONT	40/F	1.15	B	G	TEFC
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)		
492107	418141073EE	---	---	.194		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY	
NO LOAD	0	25.7	900	3.85	0	
1/4	10.0	28.1	897	37.3	89.5	
2/4	20.0	33.9	895	59.5	93.0	
3/4	30.0	42.2	892	71.2	93.4	
4/4	40.0	52.0	889	77.4	93.0	
5/4	50.0	63.3	885	80.2	92.2	
SPEED TORQUE						
		RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES	
LOCKED ROTOR		0	140	330	282	
PULL UP		225	123	290	265	
BREAKDOWN		845	224	530	157	
FULL LOAD		889	100	236	52.0	
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. 93.0%, GUAR. EFF. 91.7%						
		DR. BY	B.R. PENDLEY	A-C MOTOR PERFORMANCE DATA		
		CK. BY	R.K. BRIDGES			
		APP. BY	W. L. SMITH			
		DATE	08/06/13			
				A36WG1042-R001 ISSUE DATE 08/31/16		

REL S.O.	RPM 890	S.F. 1.15	ROTOR 418141073EE
FRAME 365T	VOLTS 460	NEMA DESIGN B	TEST S.O. TYPICAL DATA
HP 40	AMPS 52	CODE LETTER G	TEST DATE ---
TYPE P	DUTY CONT	ENCLOSURE TEFC	STATOR RES. @ 25 °C .194
PHASE/HERTZ 3/60	AMB °C/INSUL 40/F	E/S 492107	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 B.R. PENDLEY
CK. BY R.K. BRIDGES
APP. BY W.L. SMITH
DATE 08/06/13

**A-C MOTOR
PERFORMANCE
CURVES**

A36WG1042-R001

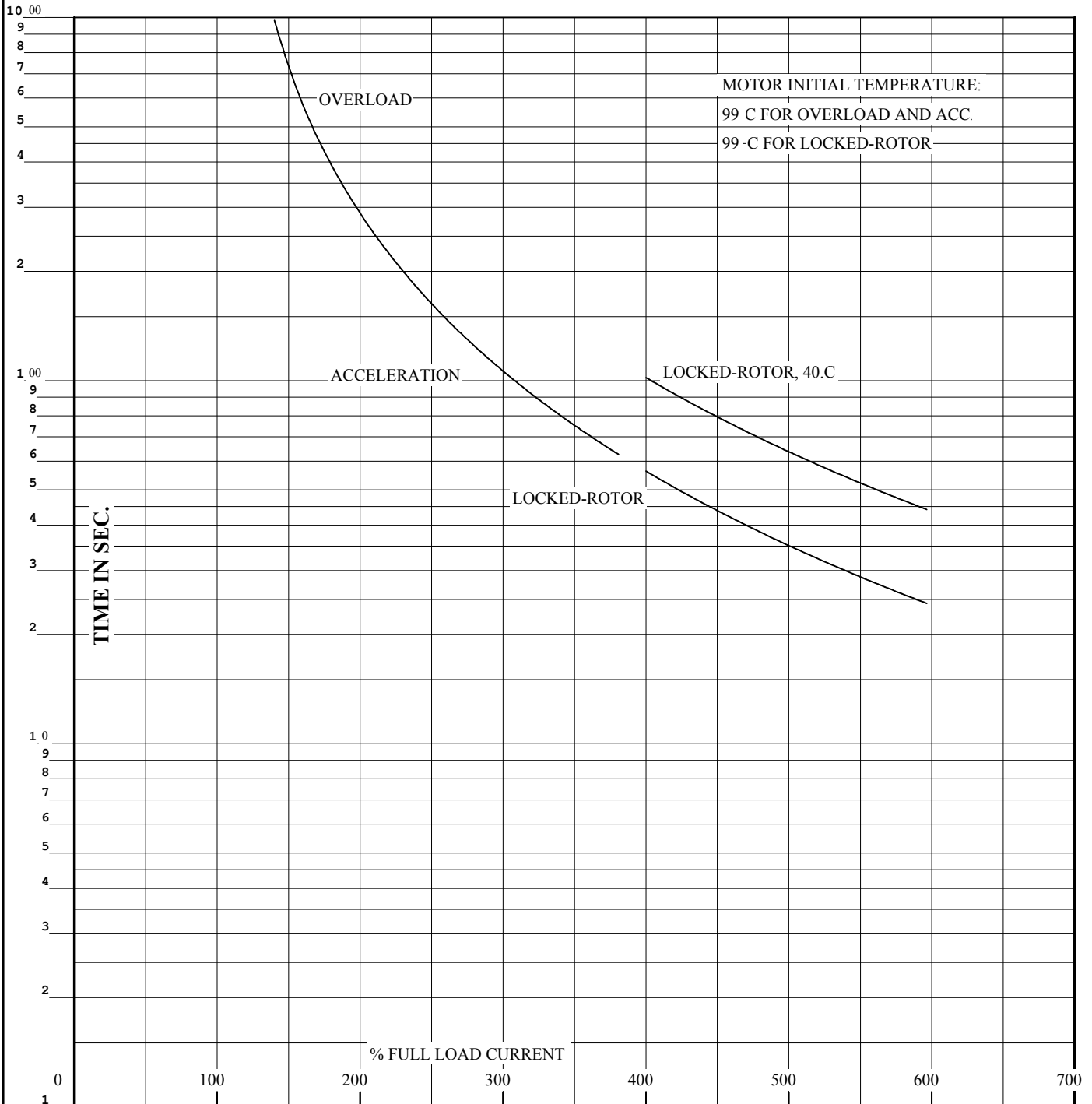
ISSUE DATE 08/31/16

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REL. S.O.
FRAME 365T
HP 40
TYPE P
PHASE/HERTZ 3/60

RPM 890
VOLTS 460
AMPS 52
DUTY CONT
AMB °C/INSUL 40/F

S.F. 1.15
NEMA DESIGN B
CODE LETTER G
ENCLOSURE TEFC
E/S 492107

ROTOR 418141073EE
TEST S.O. TYPICAL DATA
TEST DATE ---
STATOR RES. @ 25 °C .194
OHMS (BETWEEN LINES)


THERMAL LIMIT CURVE

REMARKS: XE MOTOR-NEMA NOM. EFF. 93.0%, GUAR. EFF. 91.7%

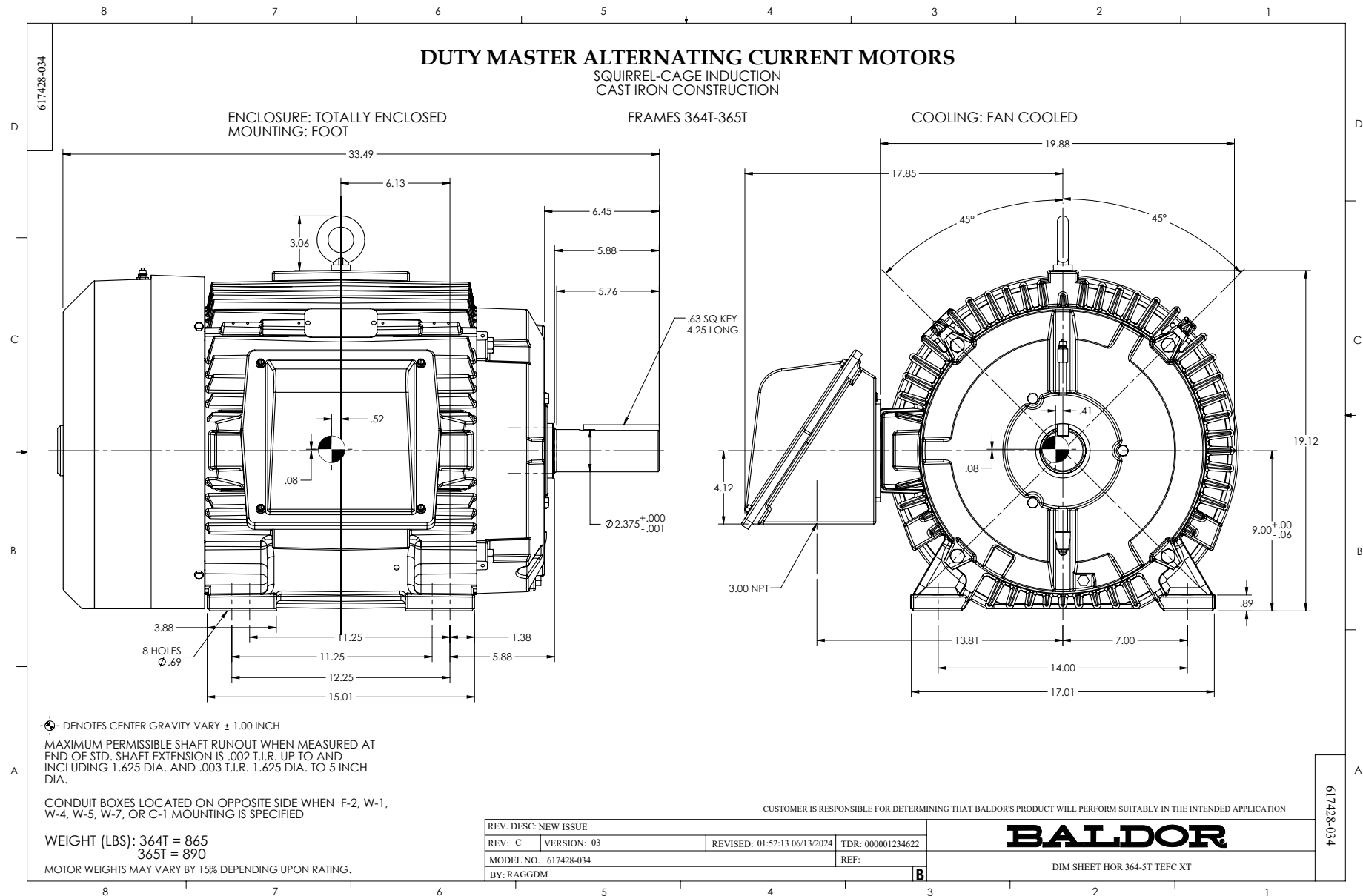
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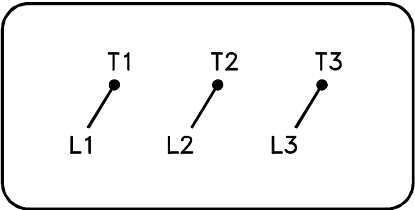
**A-C MOTOR
PERFORMANCE
CURVES**

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ISSUE DATE 08/31/16 Page 8 of 10



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