ABB BALDOR RELIANCE

Customer information packet

ECP4312T-4

50HP, 1185RPM, 3PH, 60HZ, 365T, A36062M, TEFC
Class - CLI GP A,B,C,D
Division - Division II

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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	50.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CCSAUSEEV NEMA PREMIUM NEMA_PREMIUM UR
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	61.700 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.1 %
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3A
Heater Indicator	No Heater
High Voltage Full Load Amps	61.7 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	F

Part Detail

Revision	X
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A36WG0777
Layout	617428-034
Eff. date	08-26-2024
CD Diagram	416820-036
Poles	06
Leads	3#4
Proprietary	False
Created date	10-19-2010

Lifting Lugs	No Lifting Lugs
Max Speed	1800 rpm
Motor Lead Quantity/Wire Size	3 @ 4 AWG
Motor Standards	NEMA
Motor Type	A36062M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	33.49 IN
Power Factor	81
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	No Slinger
Speed	1185 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP4033LUA

CAT #	ECP4312T-4			**SER**				**CC**	010A										
SPEC	P36G467			**RATING**	40C AMB-CONT														
HZ	**VOLTS**		**AMPS**		**RPM**	**HP**	**CODE**	-	**SF**		**DES**	**PF**		**NEMA NOM. EFF**				
60	460		61.7		1185	50	F		1.15		B	81	%	94.1	%				
													%		%				
PH	3	**CL**	F	**MAX RPM**	1800		**MAX CORR KVAR**	14											
BRG	**DE**	6313	**ODE**	6313	**ENCL**	TEFC	**FR**	365T		**IP**	55								
GREASE	POLYREX EM						**MTR WT**	879	**LBS**										
		CL I DIV 2 GRPS A,B,C,D			**CL I ZONE 2 GRPS**				**IIA,IIB,IIC**		**TEMP T**	200	**C**						
INV READY	**CT**	15-60	**HZ**	4:1	**VT**	3-60	**HZ**	20:1	**CHP**	60-75	**HZ**	1.25:1							
INV TEMP CL	200	**C**	**USABLE AT**	50HZ 40HP 380V 60A						SF1.0									

Accessories

Part number	Description	Multiplier
K36G2	C-FACE KIT	A8

S/O	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	365T	50	P	3/60	1185	460

AMPS	DUTY	AMB °C/ INSUL	S.F.	NEMA DESIGN	CODE LETTER	ENCLOSURE
61.7	CONT	40/F	1.0	B	F	TEFC

E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)
892103	418141-71JE	---	---	.130

PERFORMANCE

LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY
NO LOAD	0	21.3	1200	5.08	0
1/4	12.5	26.2	1197	49.4	90.8
2/4	25.0	35.6	1193	70.0	93.9
3/4	37.5	47.8	1190	77.8	94.4
4/4	50.0	61.7	1186	80.6	94.2
5/4	62.5	76.7	1182	81.5	93.6

SPEED TORQUE

	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES
LOCKED ROTOR	0	154	340	345
PULL UP	650	133	295	305
BREAKDOWN	1133	230	510	191
FULL LOAD	1186	100	221	61.7

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

TYPICAL DATA
XE MOTOR-TYPICAL DATA-NEMA NOM. EFF. 94.1 PCT.
GUARANTEED MIN. EFF. 93.6 PCT.

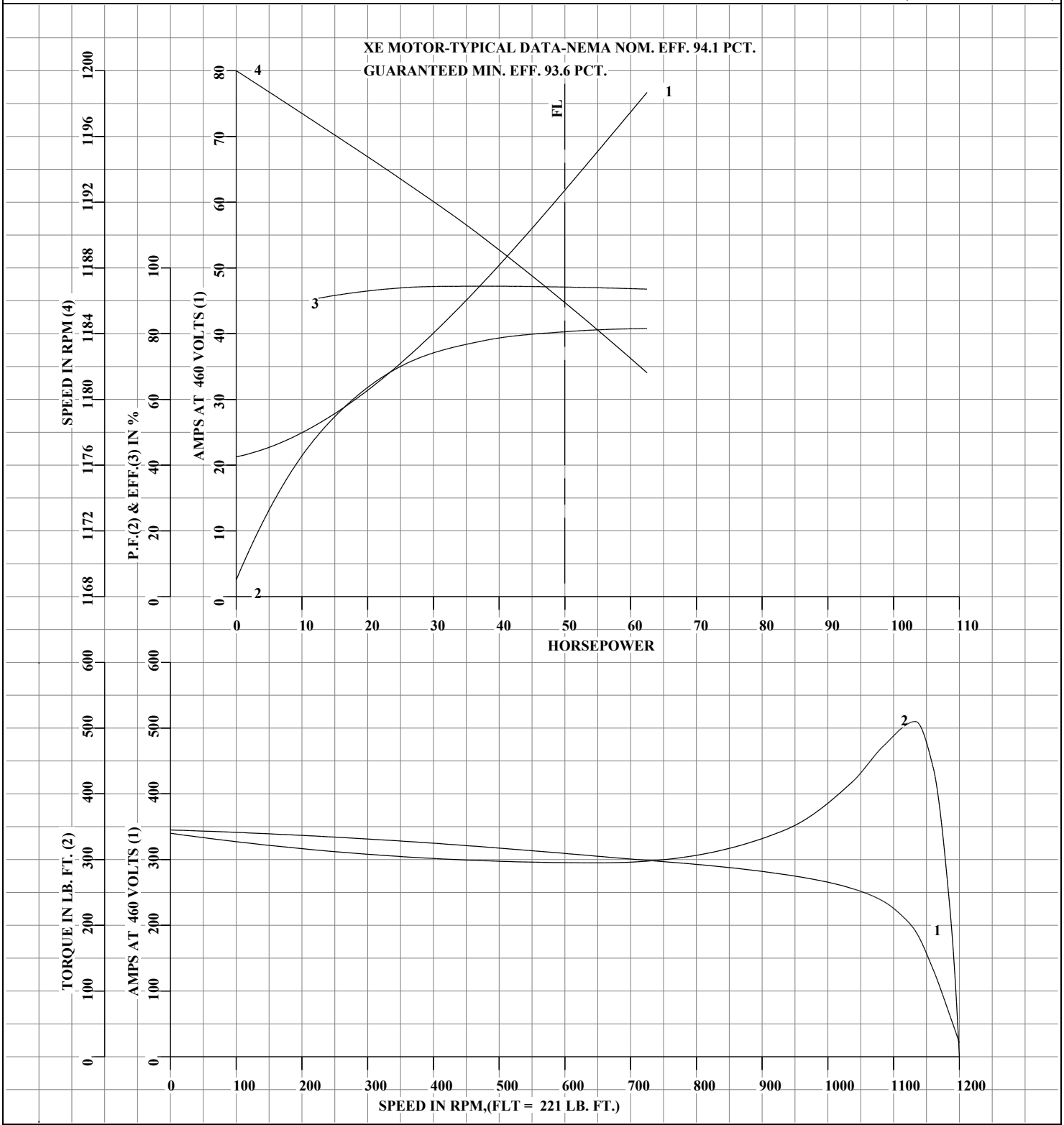
ABB	DRAWN BY: W. L. SMITH CHECKED BY: J.J.HARRISON APPROVED BY: W. L. SMITH DATE: 12/07/05	AC MOTOR PERFORMANCE DATA	A36WG0777-R004 DATE ISSUED 03/04/20

ABB BALDOR RELIANCE

CUSTOMER INFORMATION PACKET

RPM 1185	**S.F. 1.0**	**ROTOR 418141-7EJE**
FRAME 365T	**VOLTS 460**	**NEMA DESIGN B**	**TEST S.O. TYPICAL DATA**
HP 50	**AMPS 61.7**	**CODE LETTER F**	**TEST DATE ---**
TYPE P	**DUTY CONT**	**ENCLOSURE TEFC**	**STATOR RES. @ 25°C .130**
PHASE / HERTZ 3/60	**AMB °C / INSUL 40/F**	**E/S 892103**	**OHMS (BETWEEN LINES)**

XE MOTOR-TYPICAL DATA-NEMA NOM. EFF. 94.1 PCT.
GUARANTEED MIN. EFF. 93.6 PCT.



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

	DRAWN BY: W. L. SMITH CHECKED BY: J.J.HARRISON APPROVED BY: W. L. SMITH DATE: 12/07/05	AC MOTOR PERFORMANCE DATA	A36WG0777-R004 ISSUE DATE 03/04/2014

DUTY MASTER ALTERNATING CURRENT MOTORS

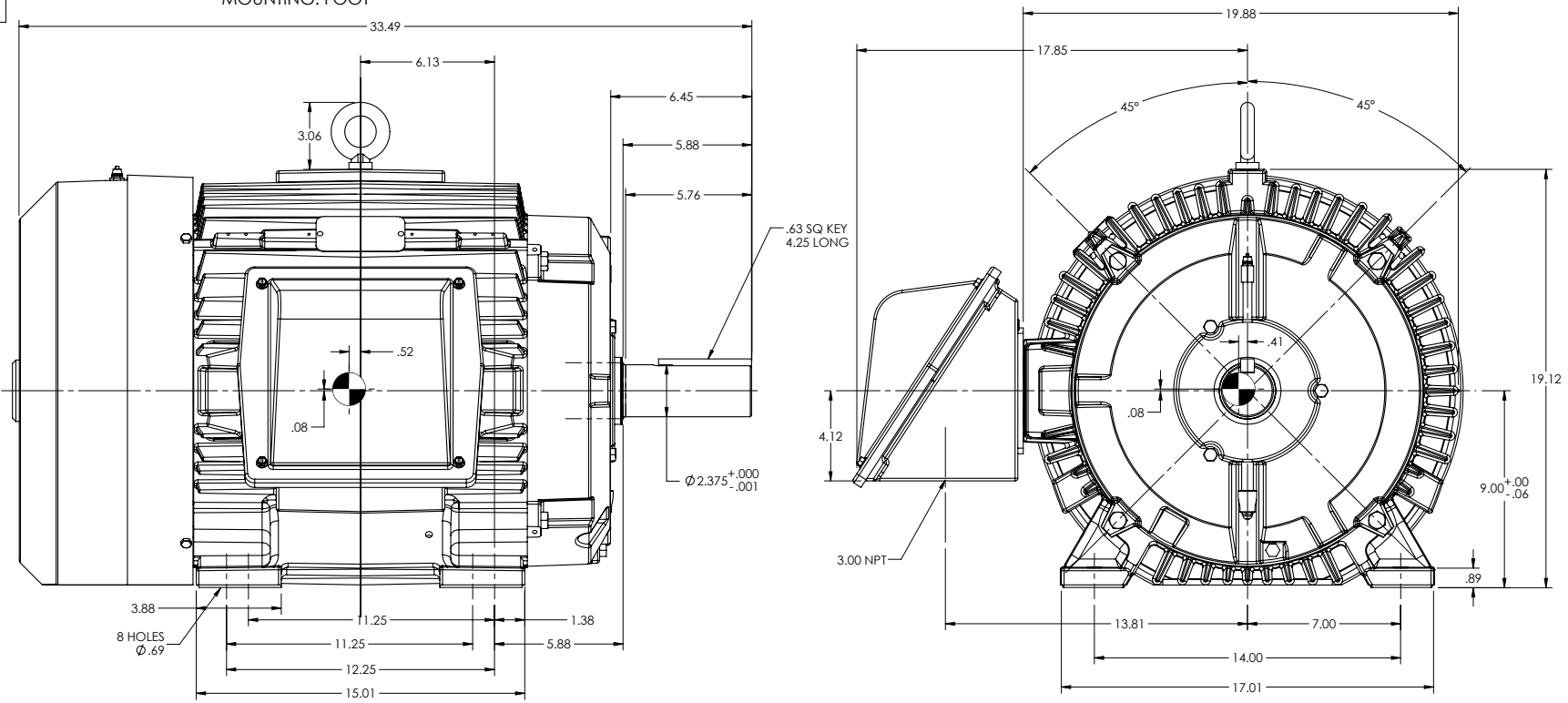
SQUIRREL-CAGE INDUCTION
CAST IRON CONSTRUCTION

ENCLOSURE: TOTALLY ENCLOSED
MOUNTING: FOOT

FRAMES 364T-365T

COOLING: FAN COOLED

617428-034



⌖ DENOTES CENTER GRAVITY VARY ± 1.00 INCH

MAXIMUM PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF STD. SHAFT EXTENSION IS .002 T.I.R. UP TO AND INCLUDING 1.625 DIA. AND .003 T.I.R. 1.625 DIA. TO 5 INCH DIA.

CONDUIT BOXES LOCATED ON OPPOSITE SIDE WHEN F-2, W-1, W-4, W-5, W-7, OR C-1 MOUNTING IS SPECIFIED

WEIGHT (LBS): 364T = 865
365T = 890

MOTOR WEIGHTS MAY VARY BY 15% DEPENDING UPON RATING.

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION

REV. DESC: NEW ISSUE			
REV: C	VERSION: 03	REVISED: 01:52:13 06/13/2024	TDR: 000001234622
MODEL NO. 617428-034			REF:
BY: RAGGDM			B

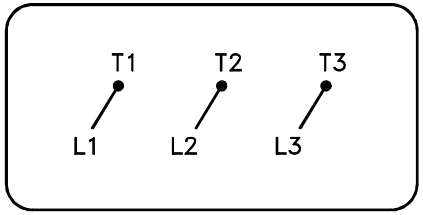
BALDOR

DIM SHEET HOR 364-5T TEFC XT

617428-034

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			BALDOR
REV. LTR: –	VERSION: 00	TDR: 000000538207	
FILE: \MGA\00000\682		REVISED: 11:54:06 04/30/2010	CONN DIAG – STANDARD 3 LEAD
MTL: –		BY: RAGRA	SH 1 of 1