ABB BALDOR RELIANCE

Customer information packet

ECP4113T-4

30HP, 890RPM, 3PH, 60HZ, 364T, A36050M, TEFC, F
Class - CLI GP A,B,C,D
Division - Division II

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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**									

Parts List

Part number	Description	Quantity
SA273158	SA A36-5065-0998	1.000 ea
RA259761	RA A36-5065-0998	1.000 ea
421948051	LABEL, MYLAR	1.000 ea
NP2496L	MOTOR LUBE NAMEPLATE	1.000 ea
000613006PU	N/P (RELEASE QTY 10,000) UL CSA LABEL	1.000 ea
000692000VD	LABEL WARNING	1.000 ea
NP3238	SS CP XEX SEVERE DUTY MAIN NP,CURUS EEV	1.000 ea
085922073B	BRKT 360 085922072WCC KB	1.000 ea
415072001B	CLAMP	1.000 ea
078559034A	+F/C A 078559001A - 360	1.000 ea
034180012DA	KEY 1X4X1/4X1-1/2 L	1.000 ea
412118006A	DRAIN	1.000 ea
078557001F	FAN KB 110/50 (60) 360	1.000 ea
004824015A	GREASE POLYREX EM	0.540 lb
032018012DK	HHCS 1/2-13X1-1/2 PLTD. 032018012DR	4.000 ea
032018008AK	HHCS 1/4-20X1 PLATED	4.000 ea
032018024CK	HHCS 3/8-16X3 PLTD.	3.000 ea
415096002A	CPLG 1/8 HEX TYPE	1.000 ea
415045002E	SLGR	1.000 ea
410700004F	WSHR	1.000 ea
034530052AB	P/NIP 1/8X6-1/2 Zinc	1.000 ea
085922073B	BRKT 360 085922072WCC KB	1.000 ea
032018012DK	HHCS 1/2-13X1-1/2 PLTD. 032018012DR	4.000 ea
032018024CK	HHCS 3/8-16X3 PLTD.	3.000 ea
415045002E	SLGR	1.000 ea
412118006A	DRAIN	1.000 ea
034530020AB	P/NIP 1/8X2-1/2 PLTED	1.000 ea
415096002A	CPLG 1/8 HEX TYPE	1.000 ea
076708000BB	CONDUIT BOX-360	1.000 ea
065776000C	GASKET,MAIN CBOX, 320-400	1.000 ea
076709000A	C/B Cover - 360	1.000 ea

067053000B	GASK 320-400	1.000 ea
418150003A	GREASE FITTING CAP	1.000 ea
032018010CK	HHCS 3/8-16X1-1/4 PLTD. 032018010CR	4.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
415000115H	T/LUG #2AWG-4/0AWG	1.000 ea
033512008LB	HHTTS 1/4-20X1 PLATED	4.000 ea
406099000A	PLUG - FAN COVER 320-440	1.000 ea
034000014AB	WSH ID.406 OD.812 TH.065	4.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
418150003A	GREASE FITTING CAP	1.000 ea
MG1025N19	WILKO 778.50 BLUE GREEN - 55 GAL DRUMS	0.250 ga
033775004EA	DRSCR #6-1/4 304 S.S.	4.000 ea
034180034HA	KEY 5/8X5/8X4-1/4 L	1.000 ea
HW1000A32	5/16 FL WASHER WIDE,ID=.344,OD=1.125	3.000 ea
032509020C	CARRIAGE BOLT - 360	3.000 ea
LB1449	DIV-2/NEC WARNING LABEL	1.000 ea
034530032BB	P/NIP 1/4X4" SCHED 40	1.000 ea
034631002AB	BUSH 1/4 TO 1/8 PLTD.	1.000 ea
035000001G	GREASE RELIEF FITTING, ALEMITE 317400	1.000 ea
034631002AB	BUSH 1/4 TO 1/8 PLTD.	1.000 ea
034530020BB	P/NIP 1/4X2-1/2 PLATED	1.000 ea
035000001G	GREASE RELIEF FITTING, ALEMITE 317400	1.000 ea
14PA1000	PACKAGING 314 GROUP COMBINED PRINT	1.000 ea
032018005DL	1/2-13 X 5/8 SILICON BRONZE HHCS	1.000 ea

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%

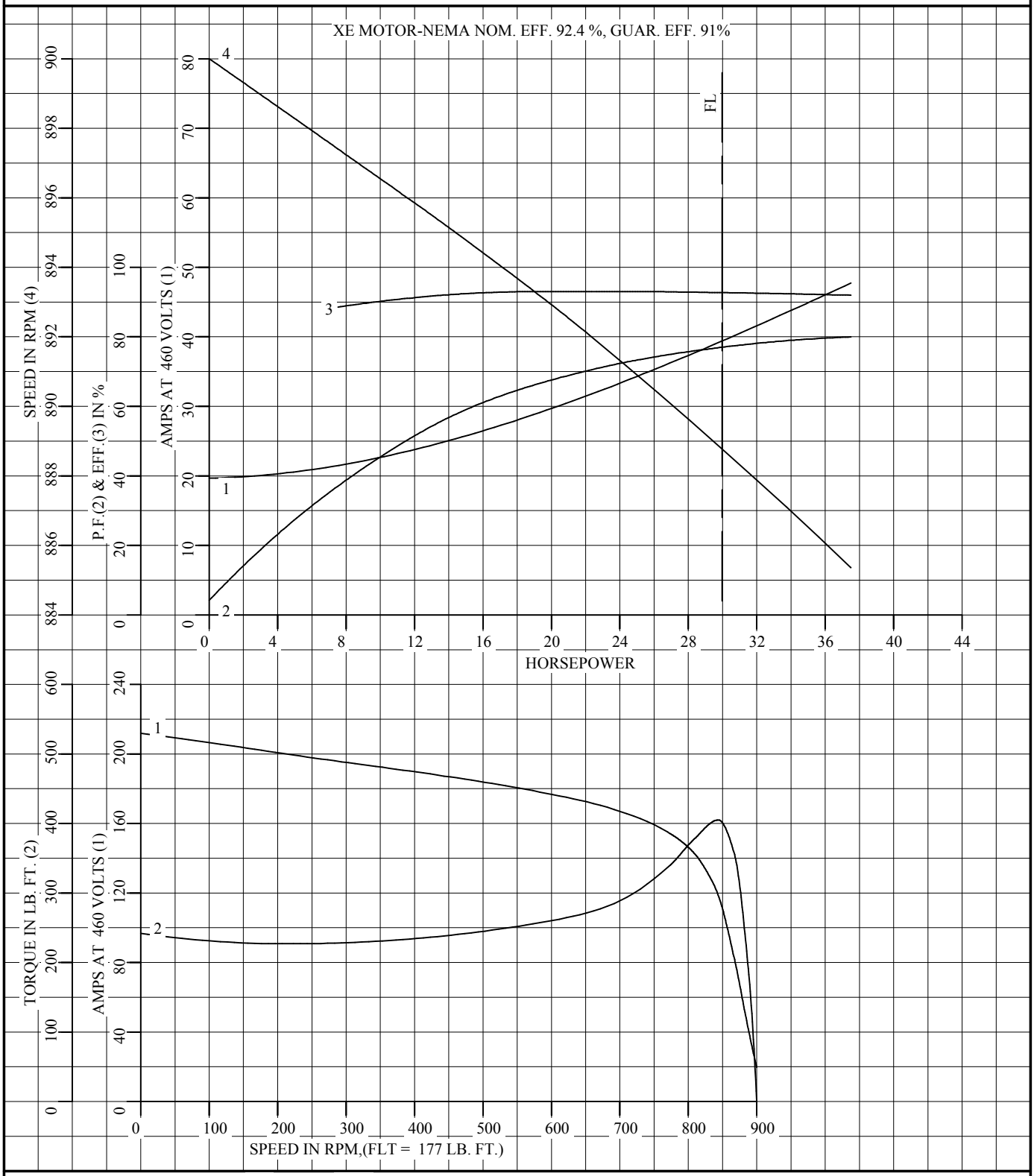
BALDOR
A MEMBER OF THE ABB GROUP

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

A-C MOTOR PERFORMANCE DATA

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

A36WG0998-R001

ISSUE DATE 09/27/16

DUTY MASTER ALTERNATING CURRENT MOTORS

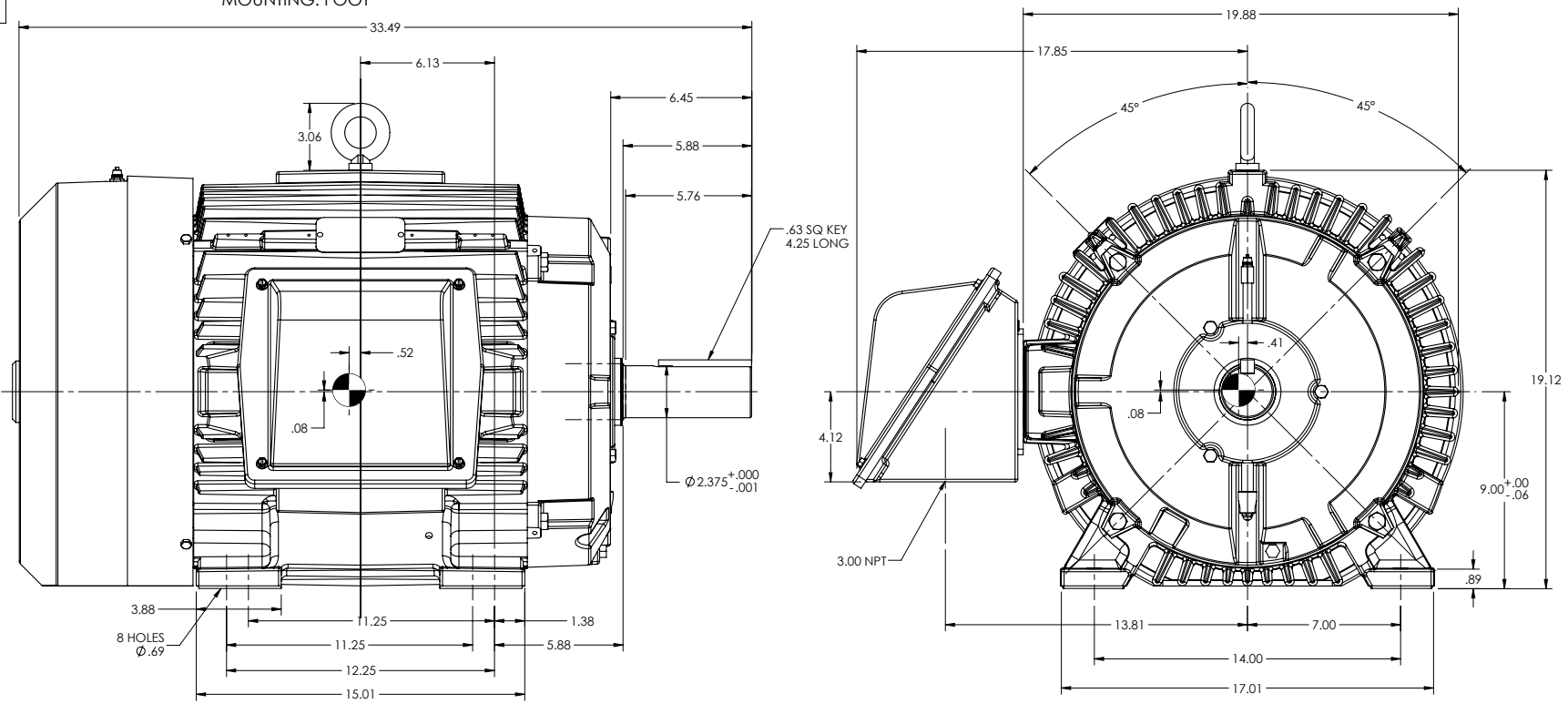
SQUIRREL-CAGE INDUCTION
CAST IRON CONSTRUCTION

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

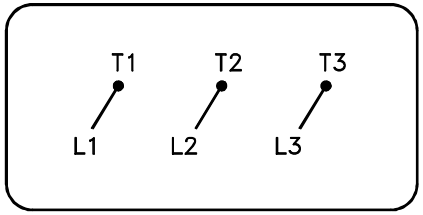
BALDOR

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
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