ABB BALDOR RELIANCE

Customer information packet

AEM4117-4

30HP, 1180RPM, 3PH, 60HZ, 365U, 1458M, TEFC, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	365U
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	30.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CSA EEV
	CCSA US
Ambient Temperature	65 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	35.100 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.0 %
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	35.1 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Motor Lead Quantity/Wire Size	3 @ 6 AWG
Motor Standards	NEMA
Motor Type	A36052M

Part Detail

Revision	L
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A36WG0743
Layout	617428-014
Eff. date	06-08-2016
CD Diagram	416820-036
Poles	06
Leads	3#6
Proprietary	False
Created date	10-19-2010

Mounting Arrangement	F1
Number of Poles	6
Overall Length	33.94 IN
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.00
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1185 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP2492L												
SPEC NO.	P36G3111			**CAT.NO.**						**FRAME**	365U	
HP	30	**VOLTS**	460	**PHASE**	3	**DESIGN**	B	**TYPE**	P			
RPM	1185	**AMPS**	35.1	**HZ**	60	**AMB**	65	**SF**	1.00			
DRIVE END BEARING	65BC03JPP30A			**LUBRICATION**		**DUTY**	CONT			**INSUL.CLASS**	F	
OPP D.E. BEARING	65BC03JPP30A			**MOBIL POLYREX EM**		**ENCL**	TEFC	**CODE**	G			
AMB	**ALERNATE RATING-S.F.**			**ALTITUDE**				**NEMA-NOM-EFF**	93			
65	**1.00**		**3300**	**GUARANTEED EFFICIENCY**			91.7					
SER.NO.												
		MOTOR WEIGHT	830									

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	EC365U	30	P	3/60	1185	460

AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
35.1	CONT	65/F	1.0	B	G	TEFC

E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES.@25 °C OHMS (BETWEEN LINES)
892143	418141-70-NE	---	---	.265

PERFORMANCE

LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY
NO LOAD	0	12.3	1200	6.05	0
1/4	7.51	14.9	1197	52.8	89.6
2/4	15.0	20.4	1193	74.1	93.1
3/4	22.5	27.3	1190	82.3	93.7
4/4	30.0	35.1	1186	85.7	93.5
5/4	37.5	43.5	1182	86.9	92.8

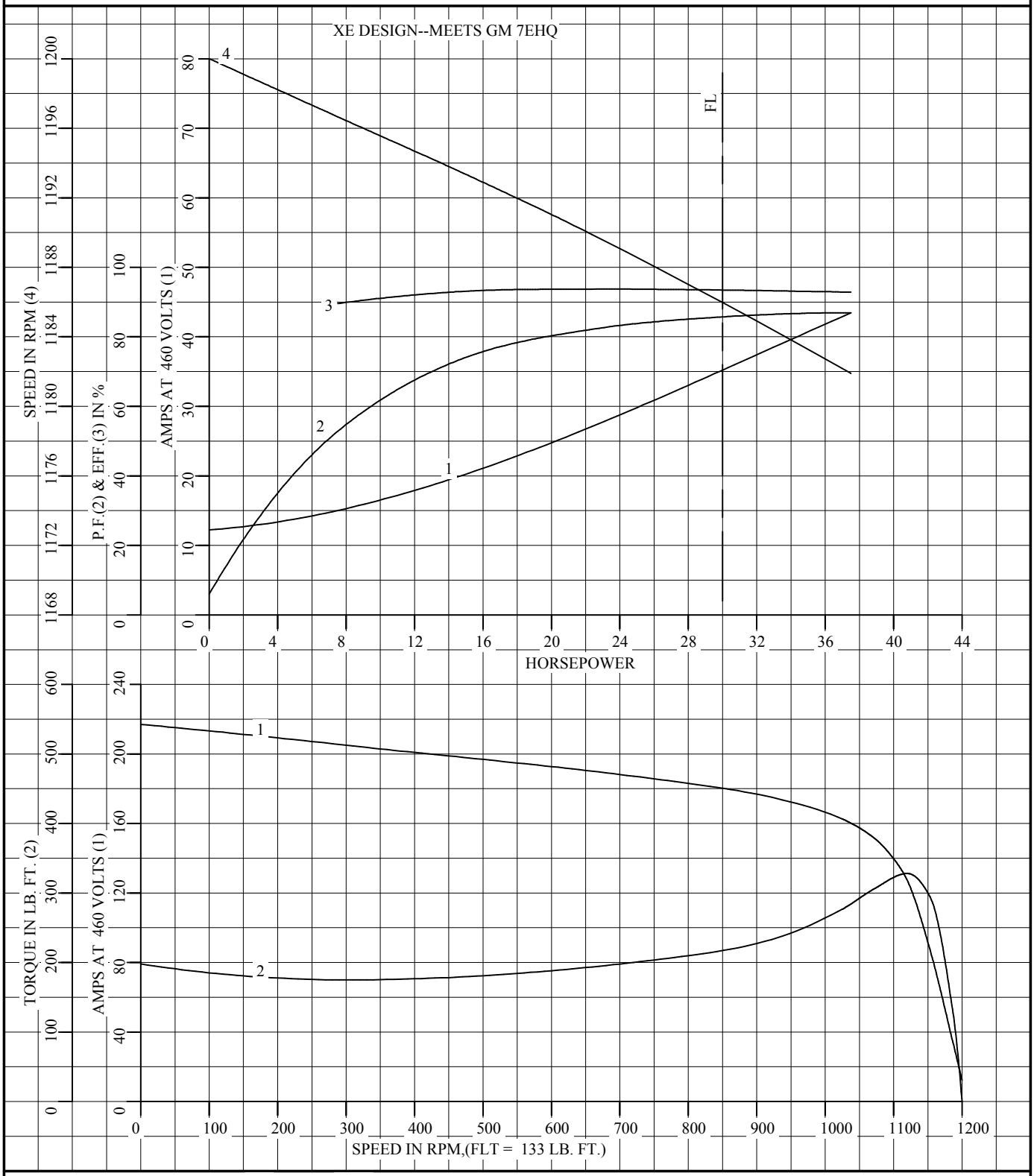
SPEED TORQUE

	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES
LOCKED ROTOR	0	149	198	217
PULL UP	300	132	175	205
BREAKDOWN	1120	247	328	127
FULL LOAD	1186	100	133	35.1

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 DESIGN--MEETS GM 7EHQ

REL S.O.	RPM 1185	S.F. 1.0	ROTOR 418141-70-NE
FRAME EC365U	VOLTS 460	NEMA DESIGN B	TEST S.O. TYPICAL DATA
HP 30	AMPS 35.1	CODE LETTER G	TEST DATE ---
TYPE P	DUTY CONT	ENCLOSURE TEFC	STATOR RES.@ 25 °C .265
PHASE/HERTZ 3/60	AMB °C/INSUL 65/F	E/S 892143	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	CD
CK. BY	T. KELATI
APP. BY	T. KELATI
DATE	10/27/14

A-C MOTOR PERFORMANCE CURVES

A36WG0743-R001

ISSUE DATE 10/27/14

Printed on 10/27/14 15:16 @ ragsun

DUTY MASTER ALTERNATING CURRENT MOTORS

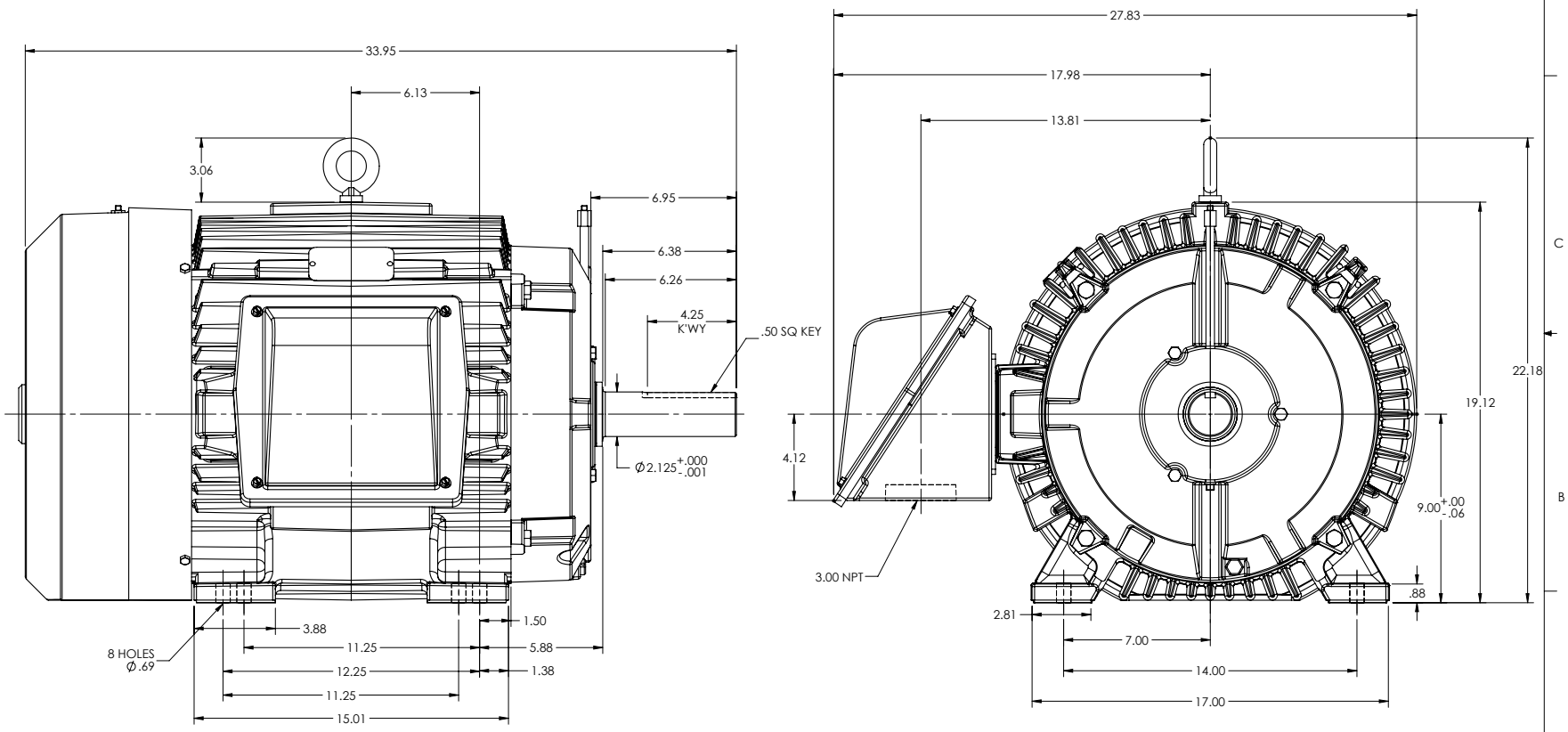
SQUIRREL-CAGE INDUCTION
CAST IRON CONSTRUCTION

ENCLOSURE: TOTALLY ENCLOSED
MOUNTING: FOOT

FRAMES 364U-365U

COOLING: FAN COOLED

617428-014



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

WEIGHT (LBS): 364U = 865
365U = 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: CHG SHAFT TO MEET "BA' REQUIREMENT OF 5.88			
REV: B	VERSION: 02	REVISED: 10:58:41 05/31/2017	TDR: 000000983755
MODEL NO. 617428-014			REF:
BY: RAGGDM			B

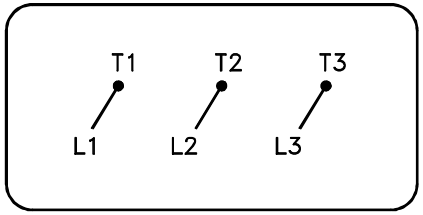
BALDOR

DIM SHT 364-365U, SINGLE EXT XT (611740-531)

617428-014

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