ABB BALDOR RELIANCE

Customer information packet

EM2555T-5

100HP, 1780RPM, 3PH, 60HZ, 404T, 4484M, OPSB, F

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Specifications

Enclosure	OPSB
Frame	404T
Frame Material	Steel
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	100.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	NEMA PREMIUM NEMA PREMIUM (OLD LOGO) CURUSEEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	93.000 A @ 575.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.4 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	93.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	H

Part Detail

Revision	S
Type	AC
Mech. spec.	44E012
Base	
Status	PRD/A
Elec. spec.	44WGW315
Layout	44LYE012
Eff. date	11-19-2024
CD Diagram	CD0006
Poles	04
Leads	3#4
Proprietary	False
Created date	08-06-2010

Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 4 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	4484M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	36.97 IN
Power Factor	83
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	2.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1780 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP2138L												
CAT.NO.	EM2555T-5		**P/N**			**ENCLOSURE**	OPSB					
SPEC.	44E012W315G1	**CC**	010A	**FRAME**	404T	**S/N**						
HP	100		**CLASS**	F	**HZ**	60						
RPM	1780		**PH**	3	**DES**	A						
VOLT	575				**KVA-CODE**	H	**ODE BRG**	6312	**DE BRG**	6316		
AMP	93											
RATING	40C AMB-CONT			**GREASE**	POLYREX EM							
NEMA-NOM-EFF	95.4	**PF**	83	**SER.F.**	1.15							
HTR-VOLTS		**HTR-AMPS**										

AC Induction Motor Performance Data
Record # 32035
Typical performance - not guaranteed values

Winding: 44WGW315-R001	**Type:** 4484M	**Enclosure:** OPSB

Nameplate Data				**575 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			100	**Full Load Torque**	295 LB-FT
Volts			575	**Start Configuration**	direct on line
Full Load Amps			93	**Breakdown Torque**	839 LB-FT
R.P.M.			1780	**Pull-up Torque**	355 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	471 LB-FT
NEMA Design Code	A	**KVA Code**	H	**Starting Current**	646 A
Service Factor (S.F.)			1.15	**No-load Current**	33.5 A
NEMA Nom. Eff.	95.4	**Power Factor**	83	**Line-line Res. @ 25ºC**	0.0697 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	47°C
S.F. Amps				**Temp. Rise @ S.F. Load**	57°C
				Locked-rotor Power Factor	25
				Rotor inertia	15.9 LB-FT2

Load Characteristics 575 V, 60 Hz, 100 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	50	73	81	85	86	87	86
Efficiency	92.6	95.4	95.6	95.5	95.1	94.4	95.3
Speed	1794	1790	1785	1780	1775	1769	1777
Line amperes	40.1	53.9	72.1	92.7	115	137	106

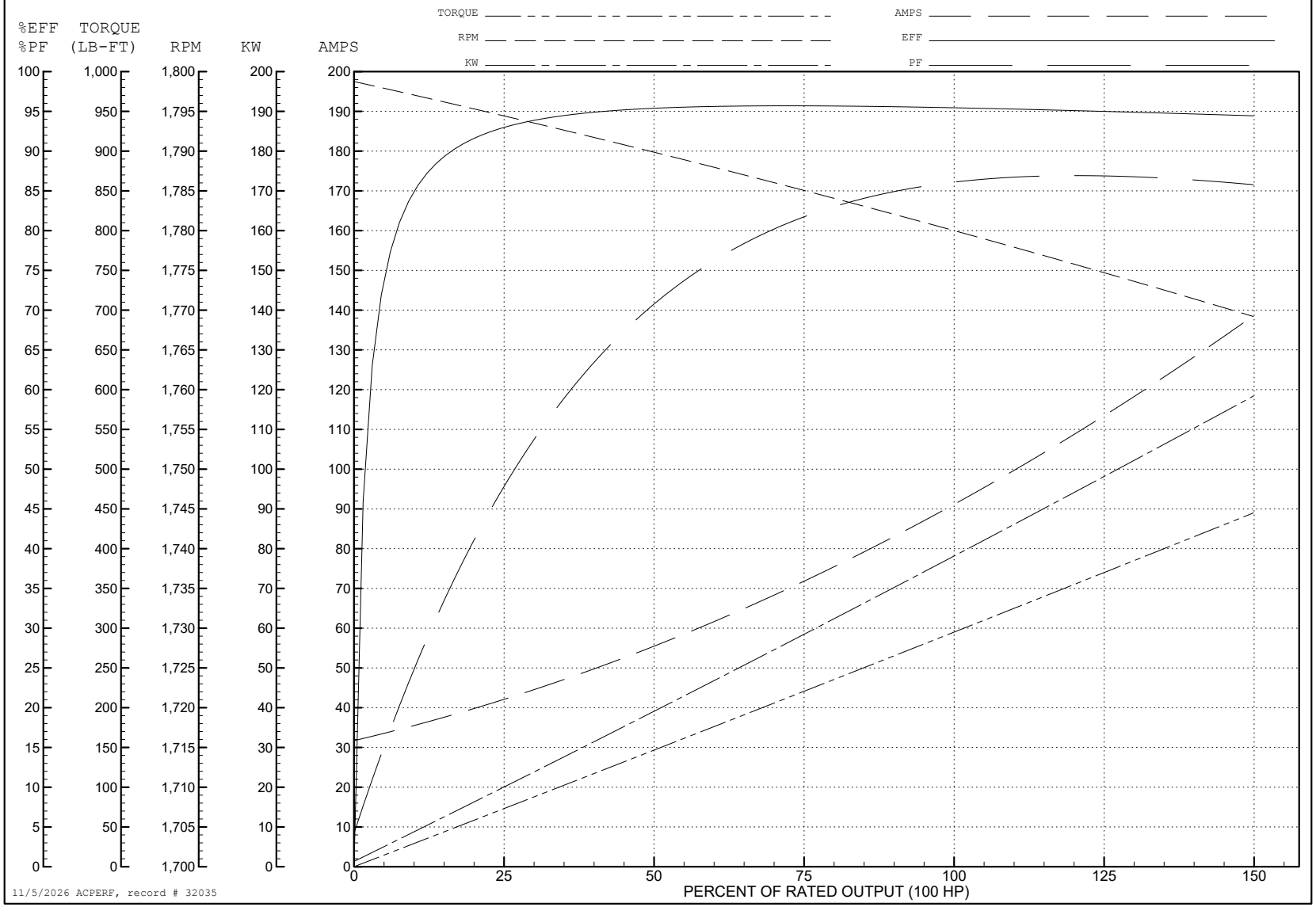
ABB Motors and Mechanical Inc.

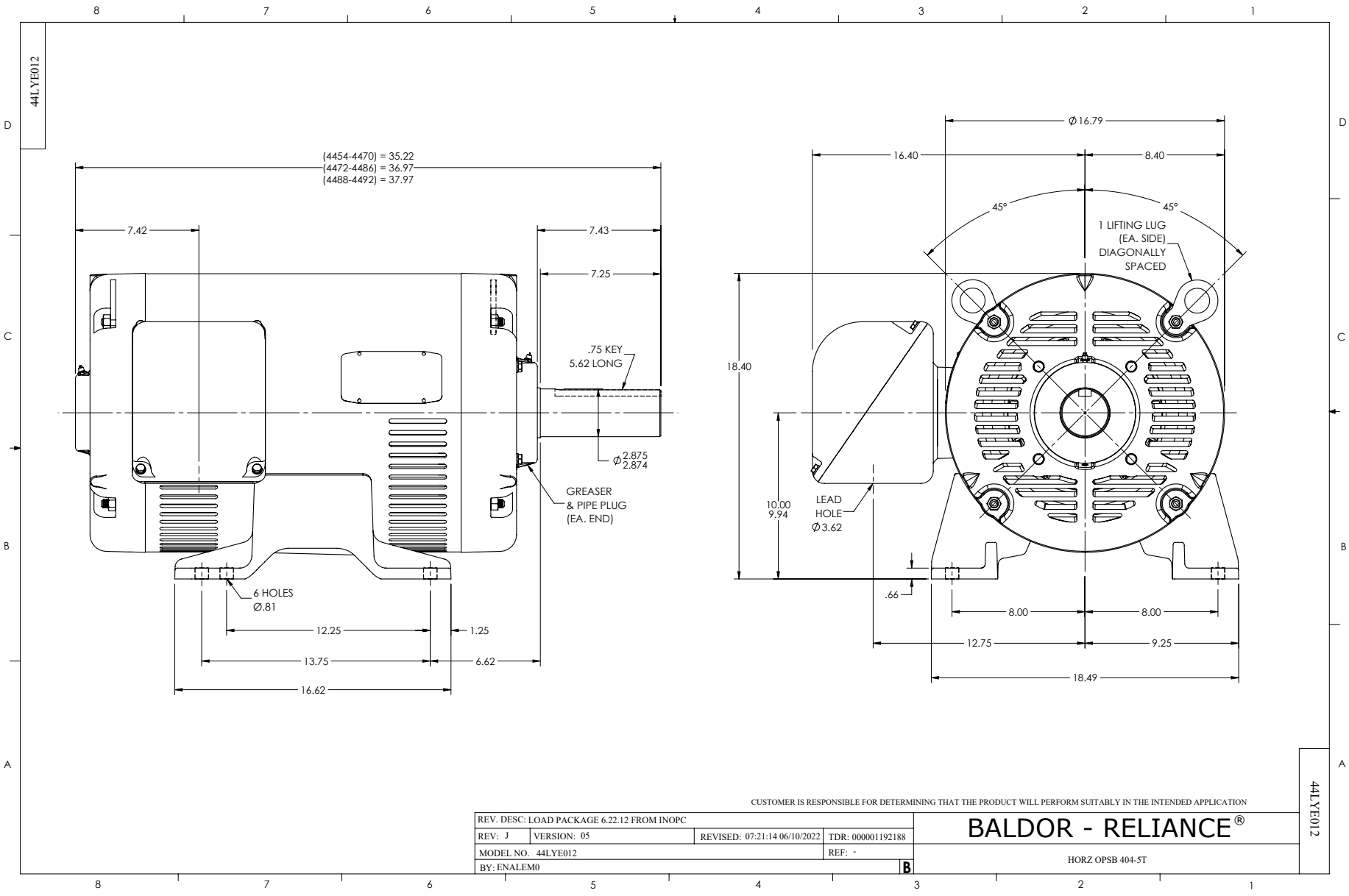
WINDING # 44WGW315

100 HP 3 PH 60 HZ 1780 RPM 575 V 4484M

TORQUES(LB-FT): PO=839 PU=355 LR=471 LRA=646

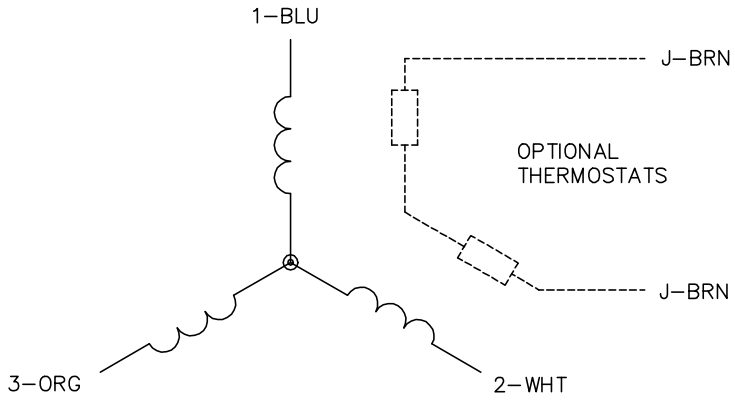
Typical performance - not guaranteed values.

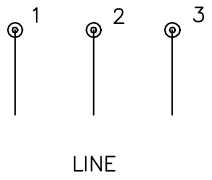



44LYE012
(4454-4470) = 35.22
(4472-4486) = 36.97
(4488-4492) = 37.97
7.42
7.43
7.25
.75 KEY
5.62 LONG
Ø2.875
2.874
GREASER
& PIPE PLUG
(EA. END)
6 HOLES
Ø.81
12.25
1.25
13.75
6.62
16.62
Ø16.79
16.40
8.40
45°
45°
1 LIFTING LUG
(EA. SIDE)
DIAGONALLY
SPACED
18.40
10.00
9.94
LEAD
HOLE
Ø3.62
.66
8.00
8.00
12.75
9.25
18.49
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD PACKAGE 6.22.12 FROM INOPC
REV: J
VERSION: 05
REVISED: 07:21:14 06/10/2022
TDR: 000001192188
MODEL NO. 44LYE012
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HORZ OPSB 404-5T
44LYE012

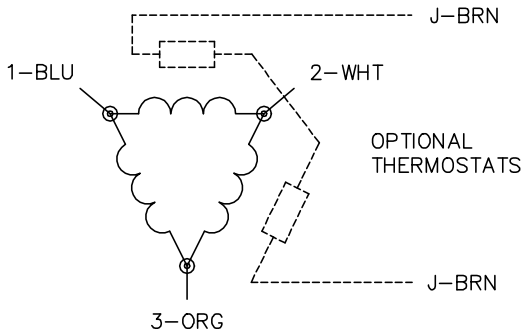
CD0006

TYPICAL WYE–CONNECTED MOTOR





TYPICAL DELTA–CONNECTED MOTOR



NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

REV. DESC: ADD CLASS CONN00000007		
REV. LTR: E	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\141	REVISED: 10:24:49 02/19/2019	BY: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

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