ABB BALDOR RELIANCE

Customer information packet

EM2551T

75HP, 1775RPM, 3PH, 60HZ, 365T, 4462M, OPSB, F1

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Specifications

Enclosure	OPSB
Frame	365T
Frame Material	Steel
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	75.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	460.0 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	170.000 A @ 230.0 V
	85.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.0 %
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	85.0 a
Insulation Class	F

Part Detail

Revision	Z
Type	AC
Mech. spec.	44E196
Base	
Status	PRD/A
Elec. spec.	44WGW013
Layout	44LYE196
Eff. date	10-31-2024
CD Diagram	CD0180
Poles	04
Leads	9#6
Proprietary	False
Created date	02-25-2010

Inverter Code	Inverter Ready
KVA Code	F
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 6 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	4462M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	33.72 IN
Power Factor	85
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	2.375 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1775 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

NP2138LUA												
CAT.NO.	EM2551T		**P/N**				**ENCLOSURE**	OPSB				
SPEC.	44E196W013G1	**CC**	010A		**FRAME**	365T	**S/N**					
HP	75		**CLASS**	F	**HZ**	60						
RPM	1775		**PH**	3	**DES**	B						
VOLT	230/460			**KVA-CODE**	F		**ODE BRG**	6312	**DE BRG**	6313		
AMP	170/85											
RATING	40C AMB-CONT			**GREASE**	POLYREX EM							
NEMA-NOM-EFF	95	**PF**	85	**SER.F.**	1.15							
	50Hz 75Hp 190/380V 204/102A					SF 1.0						
HTR-VOLTS		**HTR-AMPS**										

Accessories

Part number	Description	Multiplier
44-1403	C FACE KIT 44/404 USC TSC 6313 BRG	A8

AC Induction Motor Performance Data
Record # 13882
Typical performance - not guaranteed values

Winding: 44WGW013-R001	**Type:** 4462M	**Enclosure:** OPEN

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			75	**Full Load Torque**	222 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			170/85	**Breakdown Torque**	610 LB-FT
R.P.M.			1775	**Pull-up Torque**	235 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	327 LB-FT
NEMA Design Code	B	**KVA Code**	F	**Starting Current**	507 A
Service Factor (S.F.)			1.15	**No-load Current**	26.2 A
NEMA Nom. Eff.	95	**Power Factor**	85	**Line-line Res. @ 25ºC**	0.0799 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	30°C
S.F. Amps				**Temp. Rise @ S.F. Load**	37°C
				Locked-rotor Power Factor	26.3
				Rotor inertia	11.7 lb-ft²

Load Characteristics 460 V, 60 Hz, 75 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	56	77	84	86	87	87	87
Efficiency	93.6	95.6	95.4	95.3	94.6	93.9	94.9
Speed	1794	1788	1782	1776	1769	1761	1772
Line amperes	33.9	48	66.1	85.4	106	128	97.76

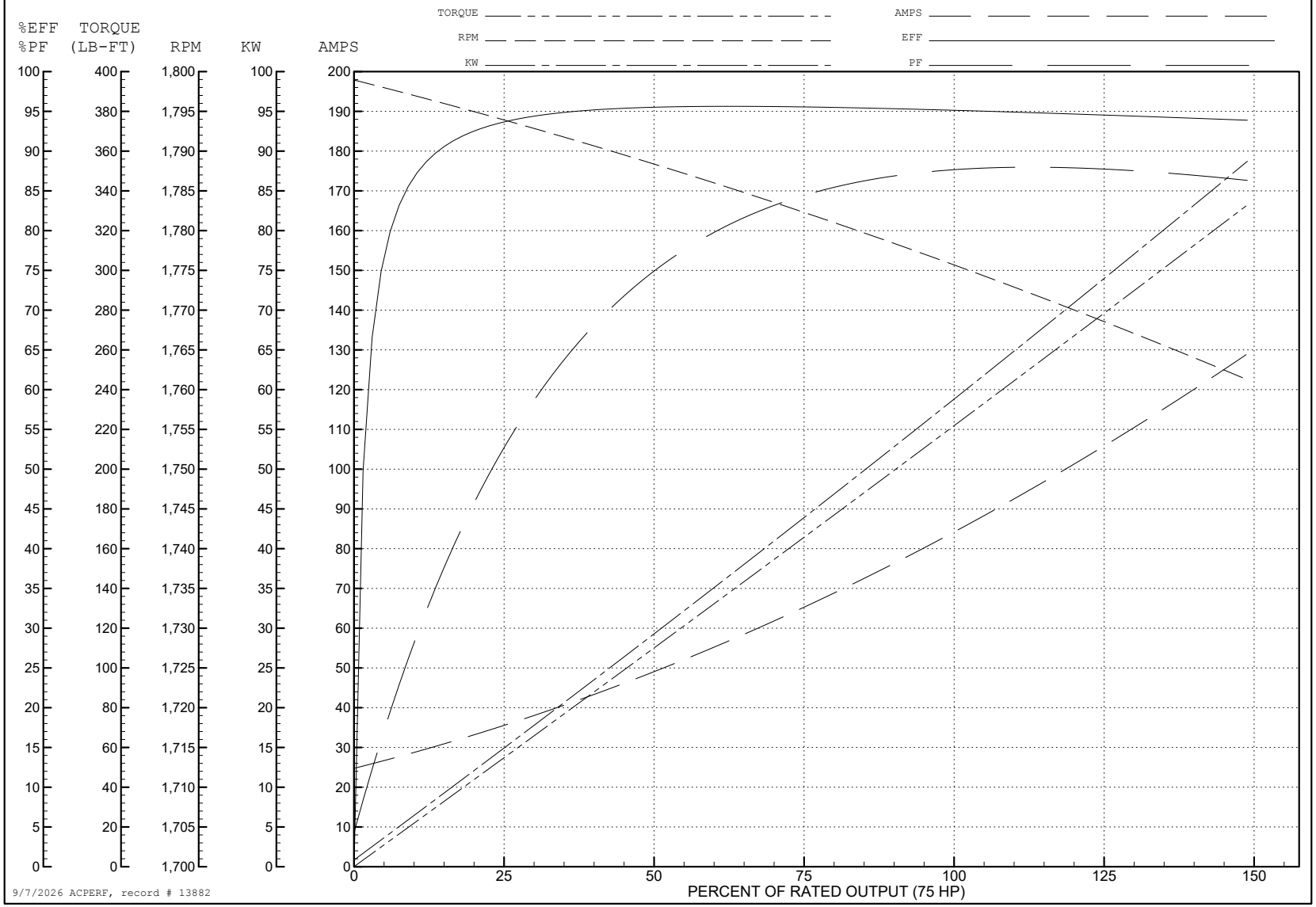
ABB Motors and Mechanical Inc.

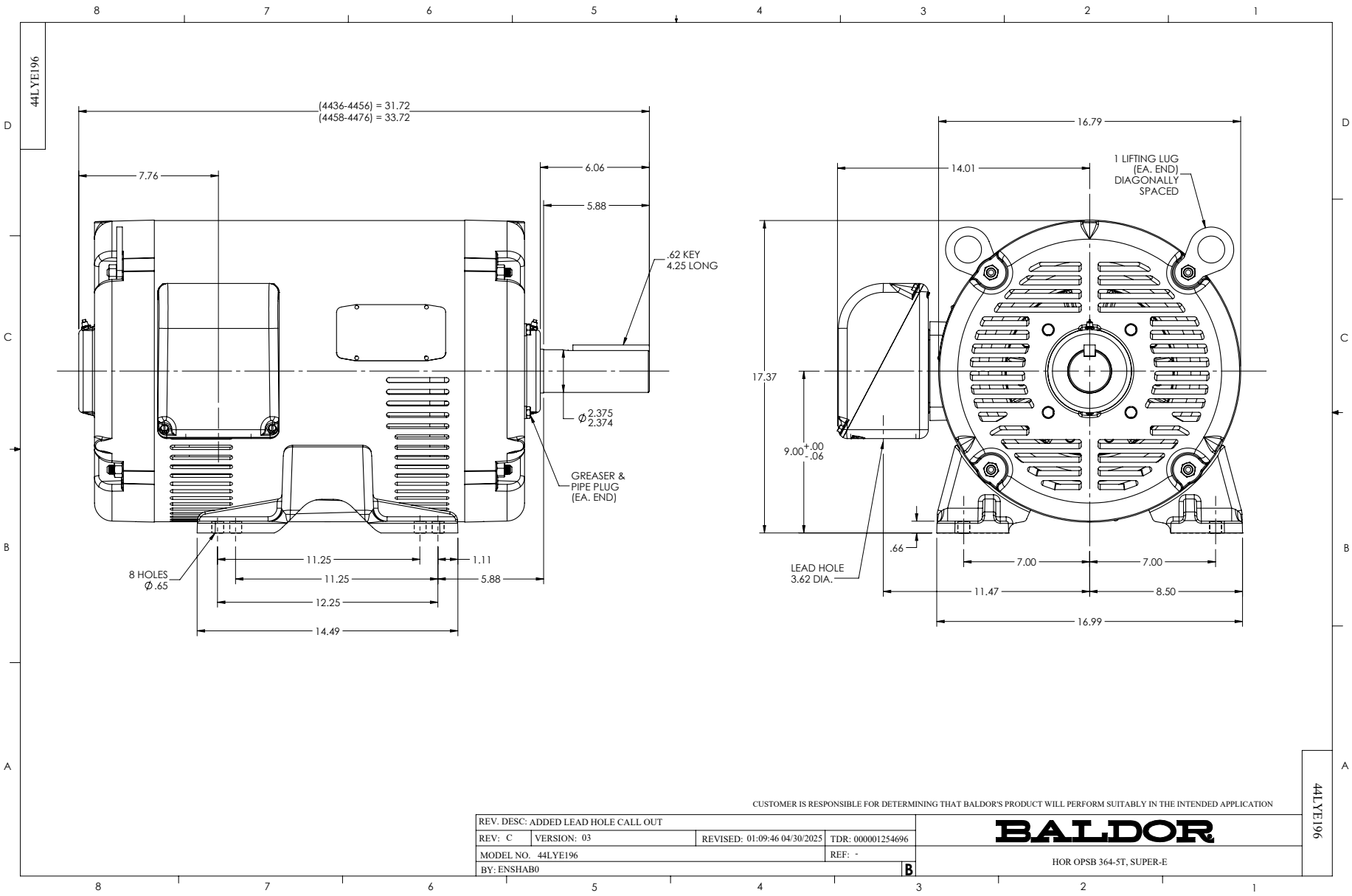
WINDING # 44WGW013

75 HP 3 PH 60 HZ 1775 RPM 460 V 4462M

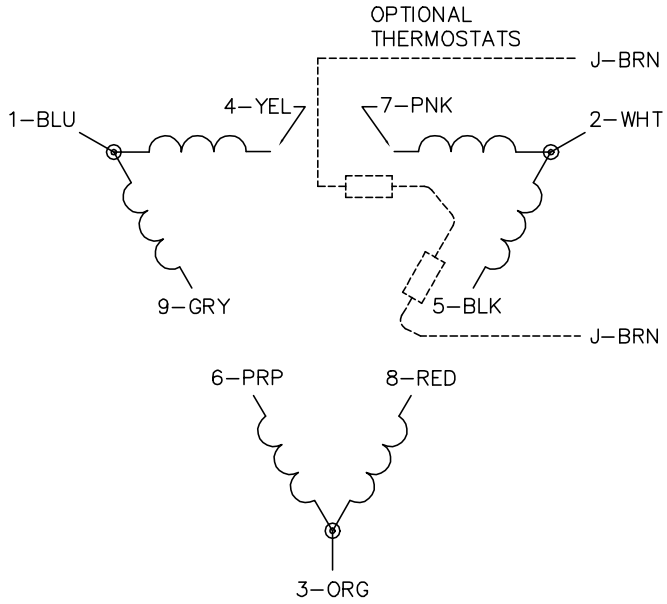
Typical performance - not guaranteed values.

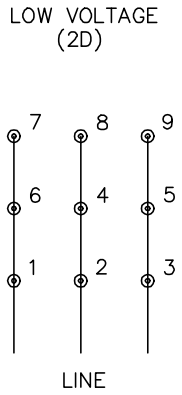
TORQUES(LB-FT): PO=610 PU=235 LR=327 LRA=507

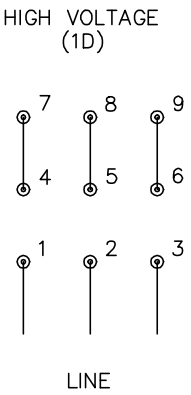



44LYE196
(4436-4456) = 31.72
(4458-4476) = 33.72
7.76
6.06
5.88
.62 KEY
4.25 LONG
Ø 2.375
2.374
GREASER &
PIPE PLUG
(EA. END)
8 HOLES
Ø .65
11.25
11.25
12.25
14.49
1.11
5.88
16.79
14.01
1 LIFTING LUG
(EA. END)
DIAGONALLY
SPACED
17.37
9.00 +.00 -.06
.66
LEAD HOLE
3.62 DIA.
7.00
7.00
11.47
8.50
16.99
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: ADDED LEAD HOLE CALL OUT
REV: C
VERSION: 03
REVISED: 01:09:46 04/30/2025
TDR: 000001254696
MODEL NO. 44LYE196
REF: -
BY: ENSHAB0
B
BALDOR
HOR OPSB 364-5T, SUPER-E
44LYE196

CD0180







NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0180

REV. DESC: ADD CLASS CONN00000007		
REV. LTR: D	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\148	REVISED: 10:25:29 02/19/2019	BY: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

3PH, DV, 9 LEADS, DELTA CONNECTION

SH 1 of 1