ABB BALDOR RELIANCE

Customer information packet

EM2551T-5

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	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	68.000 A @ 575.0 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	68.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	F

Part Detail

Revision	V
Type	AC
Mech. spec.	44E196
Base	
Status	PRD/A
Elec. spec.	44WGW317
Layout	44LYE196
Eff. date	11-19-2024
CD Diagram	CD0006
Poles	04
Leads	3#6
Proprietary	False
Created date	08-03-2010

Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 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

NP2138L													
CAT.NO.	EM2551T-5		**P/N**				**ENCLOSURE**	OPSB					
SPEC.	44E196W317	**CC**	010A	**FRAME**	365T		**S/N**						
HP	75		**CLASS**	F	**HZ**	60							
RPM	1775		**PH**	3	**DES**	B							
VOLT	575				**KVA-CODE**	F	**ODE BRG**	6312	**DE BRG**	6313			
AMP	68												
RATING	40C AMB-CONT				**GREASE**	POLYREX EM							
NEMA-NOM-EFF	95	**PF**	85	**SER.F.**	1.15								
HTR-VOLTS		**HTR-AMPS**											

AC Induction Motor Performance Data
Record # 32043
Typical performance - not guaranteed values

Winding: 44WGW317-R001 **Type:** 4462M **Enclosure:** OPEN

Nameplate Data			
Rated Output (HP)			75
Volts			575
Full Load Amps			68
R.P.M.			1775
Hz	60	**Phase**	3
NEMA Design Code	B	**KVA Code**	F
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	95	**Power Factor**	85
Rating - Duty			40C AMB-CONT
S.F. Amps			

575 V, 60 Hz: Single Voltage Motor	
Full Load Torque	222 LB-FT
Start Configuration	direct on line
Breakdown Torque	604 LB-FT
Pull-up Torque	233 LB-FT
Locked-rotor Torque	324 LB-FT
Starting Current	401 A
No-load Current	20.4 A
Line-line Res. @ 25ºC	0.126 Ω
Temp. Rise @ Rated Load	30°C
Temp. Rise @ S.F. Load	37°C
Locked-rotor Power Factor	26
Rotor inertia	11.7 LB-FT2

Load Characteristics 575 V, 60 Hz, 75 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	57	78	84	87	87	87	87
Efficiency	93.6	95.4	95.9	95.2	94.8	93.7	95
Speed	1794	1788	1782	1776	1769	1760	1772
Line amperes	26.5	38	52.5	68	84.6	102	78

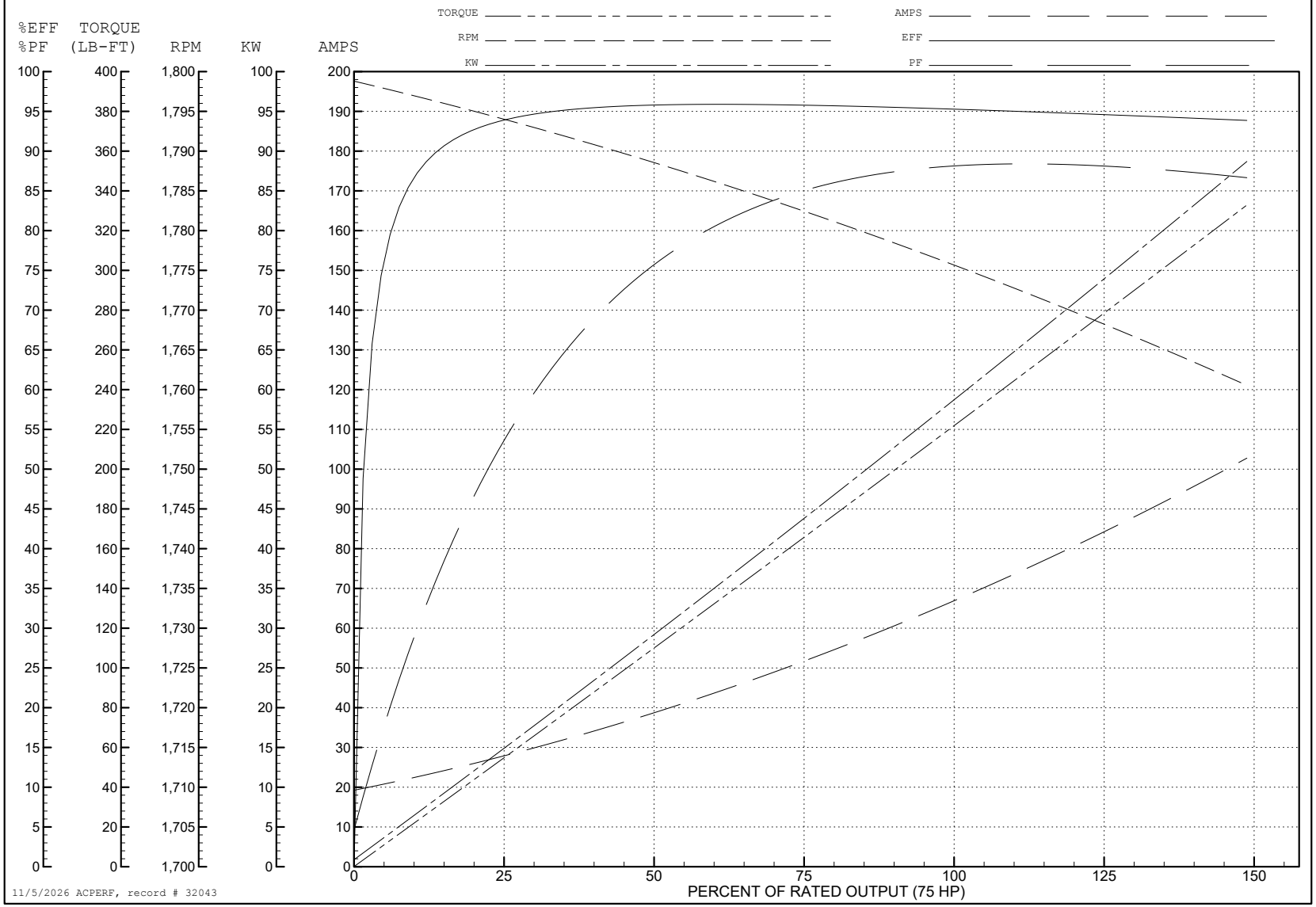
ABB Motors and Mechanical Inc.

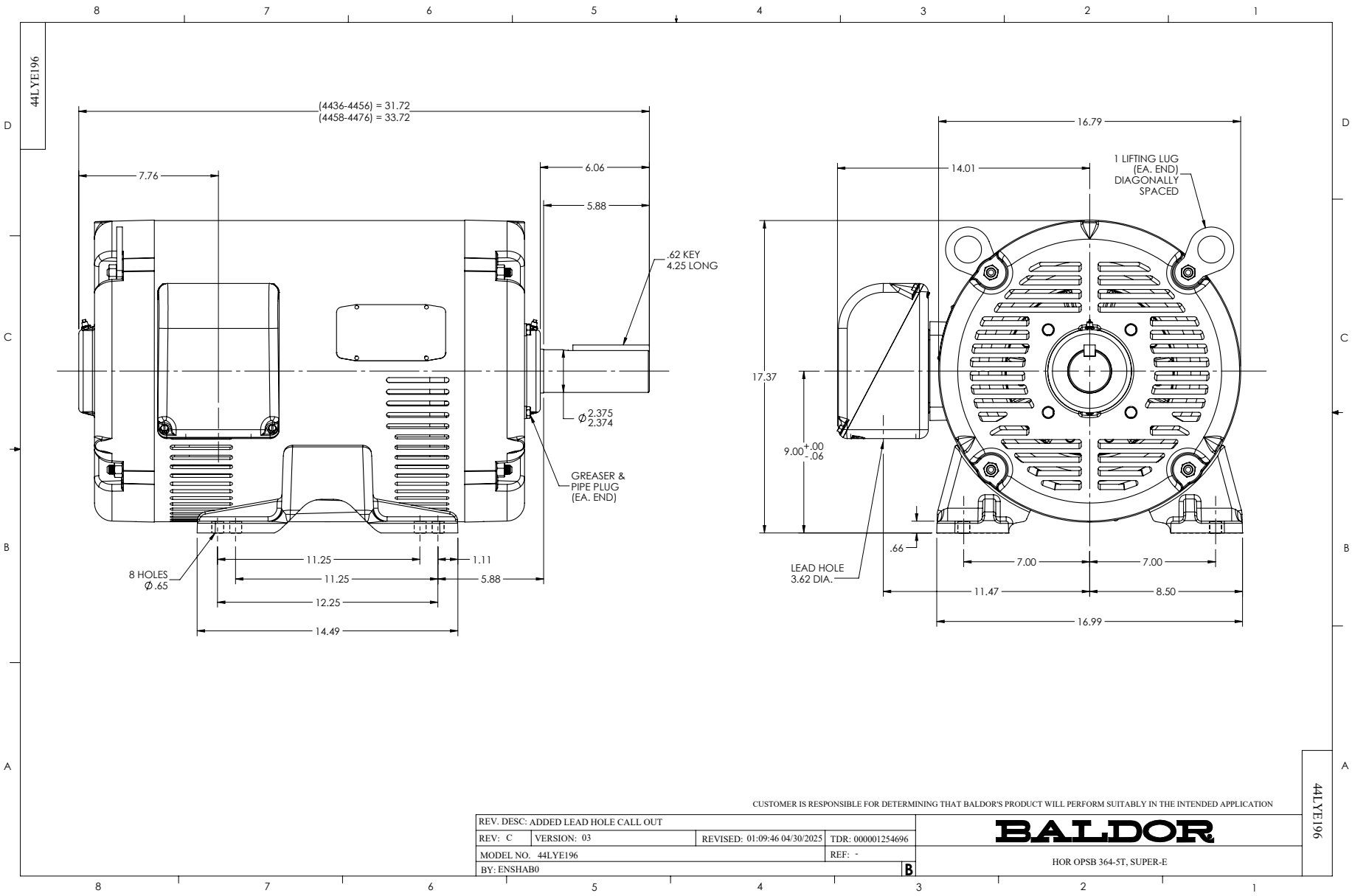
WINDING # 44WGW317

Typical performance - not guaranteed values.

75 HP 3 PH 60 HZ 1775 RPM 575 V 4462M

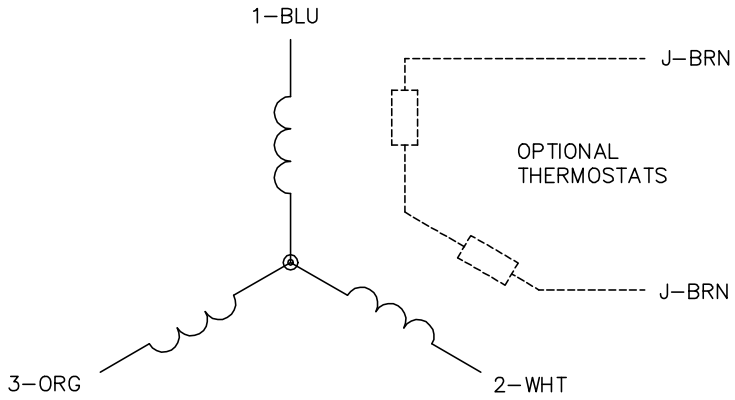
TORQUES(LB-FT): PO=604 PU=233 LR=324 LRA=401

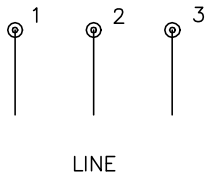



44LYE196
(4436-4456) = 31.72
(4458-4476) = 33.72
7.76
6.06
5.88
.62 KEY
4.25 LONG
Ø2.375
2.374
GREASER &
PIPE PLUG
(EA. END)
8 HOLES
Ø.65
11.25
11.25
12.25
14.49
1.11
5.88
16.79
14.01
1 LIFTING LUG
(EA. END)
DIAGONALLY
SPACED
17.37
9.00 +.00 -.06
.66
LEAD HOLE
3.62 DIA.
7.00
7.00
11.47
8.50
16.99
CUSTOMER 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

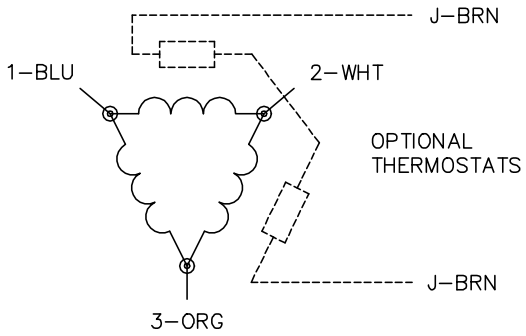
CD0006

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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