ABB BALDOR RELIANCE

Customer information packet

EM2544T

50HP, 1185RPM, 3PH, 60HZ, 365T, 4466M, 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	50.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	CURUSEEV
	NEMA PREMIUM
	NEMA PREMIUM (OLD LOGO)
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	132.000 A @ 208.0 V
	62.000 A @ 460.0 V
	124.000 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.1 %
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	62.0 a

Part Detail

Revision	T
Type	AC
Mech. spec.	44E196
Base	
Status	PRD/A
Elec. spec.	44WGW235
Layout	44LYE196
Eff. date	10-31-2024
CD Diagram	CD0180
Poles	06
Leads	9#6
Proprietary	False
Created date	05-10-2010

Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G
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	4466M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	33.72 IN
Power Factor	80
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	1185 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.	EM2544T			**P/N**					**ENCLOSURE**	OPSB			
SPEC.	44E196W235G1	**CC**	010A		**FRAME**	365T		**S/N**					
HP	50			**CLASS**	F		**HZ**	60					
RPM	1185			**PH**	3	**DES**	B						
VOLT	230/460				**KVA-CODE**	G		**ODE BRG**	6312	**DE BRG**	6313		
AMP	124/62												
RATING	40C AMB-CONT				**GREASE**	POLYREX EM							
NEMA-NOM-EFF	94.1	**PF**	80	**SER.F.**	1.15								
	50Hz 50Hp 190/380V 148/74A						SF 1.0						
HTR-VOLTS		**HTR-AMPS**											

AC Induction Motor Performance Data
Record # 22264
Typical performance - not guaranteed values

Winding: 44WGW235-R001	**Type:** 4466M	**Enclosure:** OPSB

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			50	**Full Load Torque**	221 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			124/62	**Breakdown Torque**	669 LB-FT
R.P.M.			1185	**Pull-up Torque**	263 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	343 LB-FT
NEMA Design Code	B	**KVA Code**	G	**Starting Current**	391 A
Service Factor (S.F.)			1.15	**No-load Current**	24.6 A
NEMA Nom. Eff.	94.1	**Power Factor**	80	**Line-line Res. @ 25ºC**	0.119 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	31°C
S.F. Amps				**Temp. Rise @ S.F. Load**	37°C
				Locked-rotor Power Factor	29.3
				Rotor inertia	18.8 LB-FT2

Load Characteristics 460 V, 60 Hz, 50 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	45	67	76	79	80	80	80
Efficiency	91.1	93.7	94.7	94.2	93.5	92.4	93.8
Speed	1196	1193	1189	1185	1180	1175	1182
Line amperes	28.7	37.5	49.1	62.5	77.4	93.8	71.4

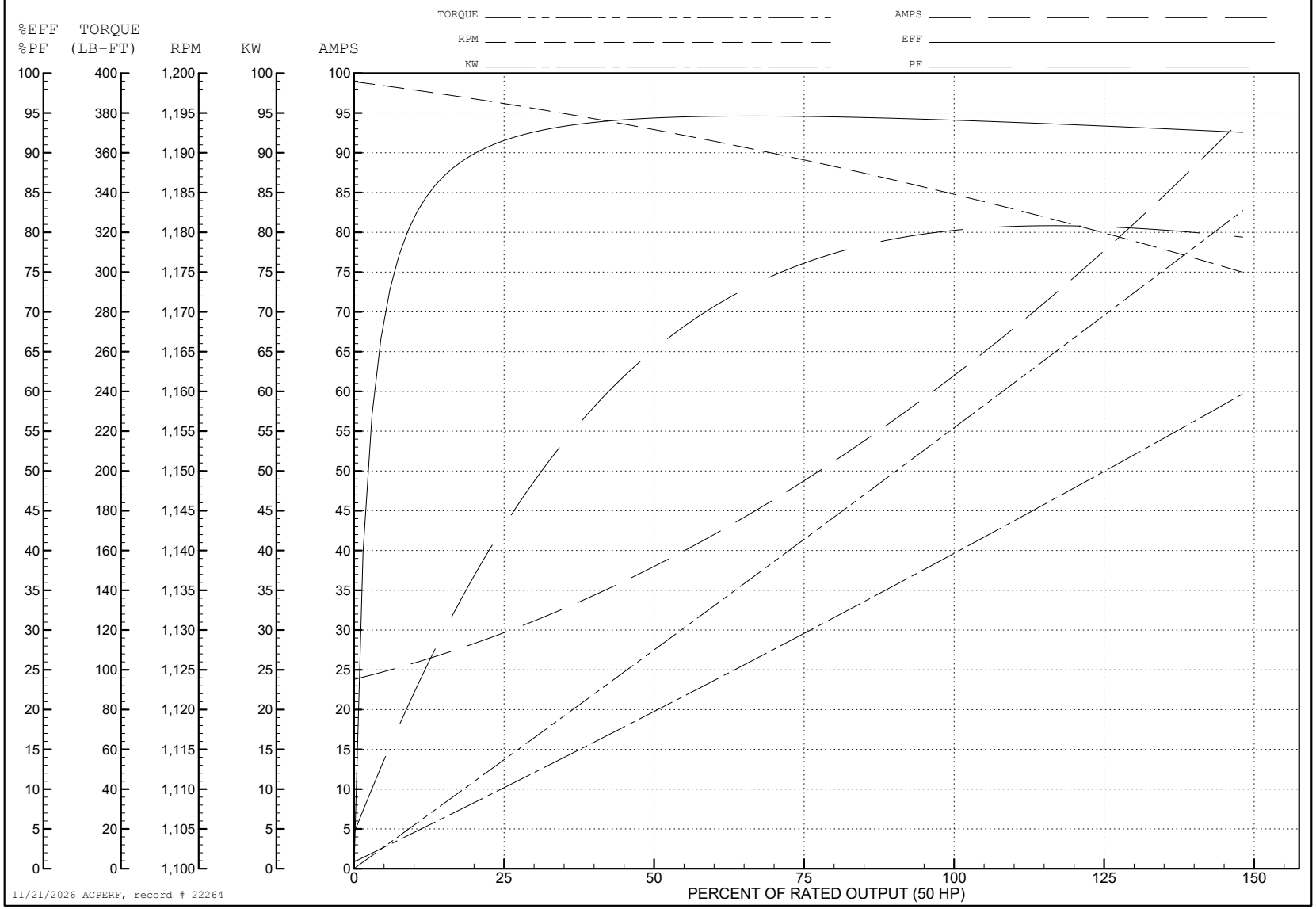
ABB Motors and Mechanical Inc.

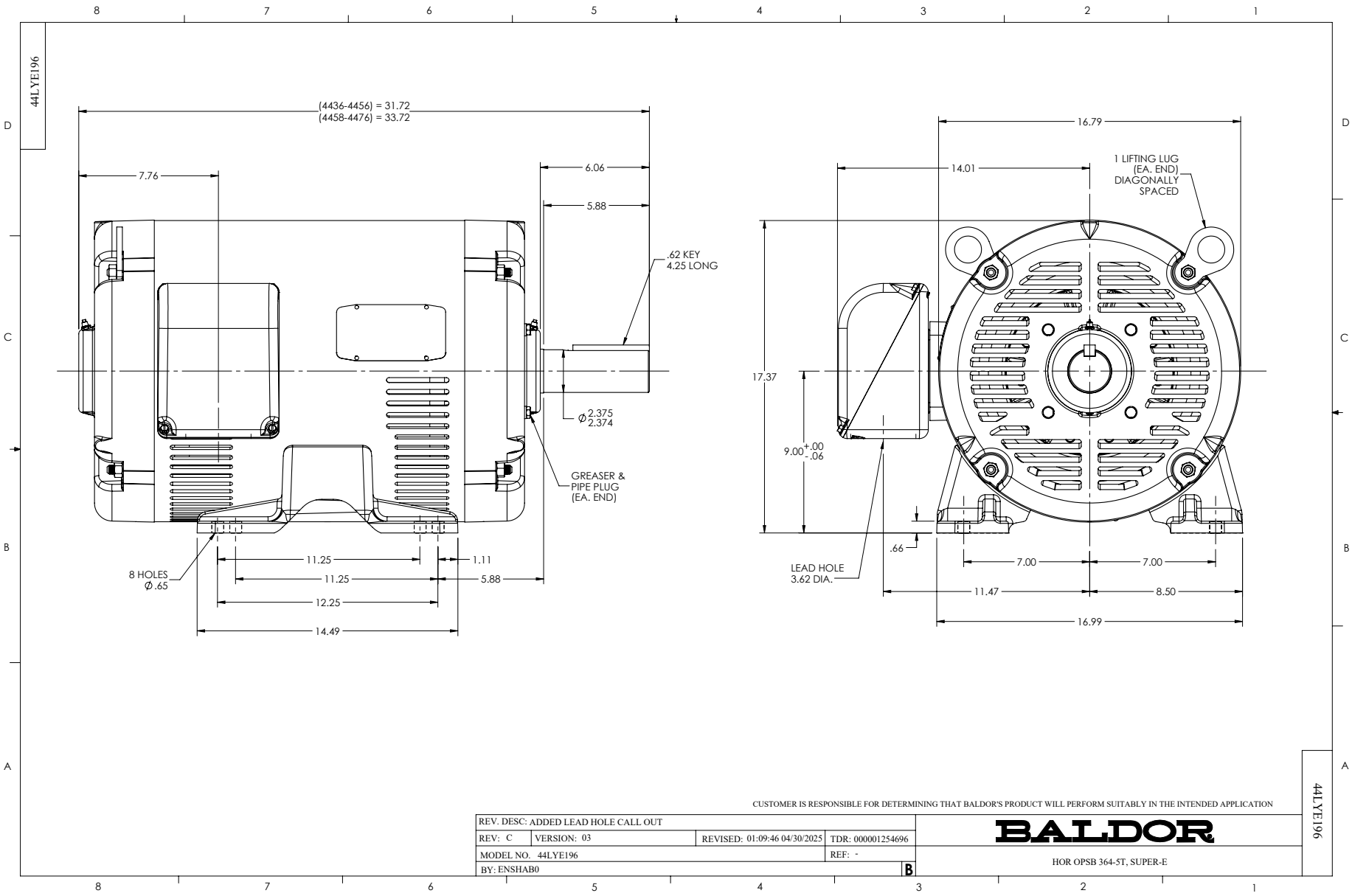
WINDING # 44WGW235

50 HP 3 PH 60 HZ 1185 RPM 460 V 4466M

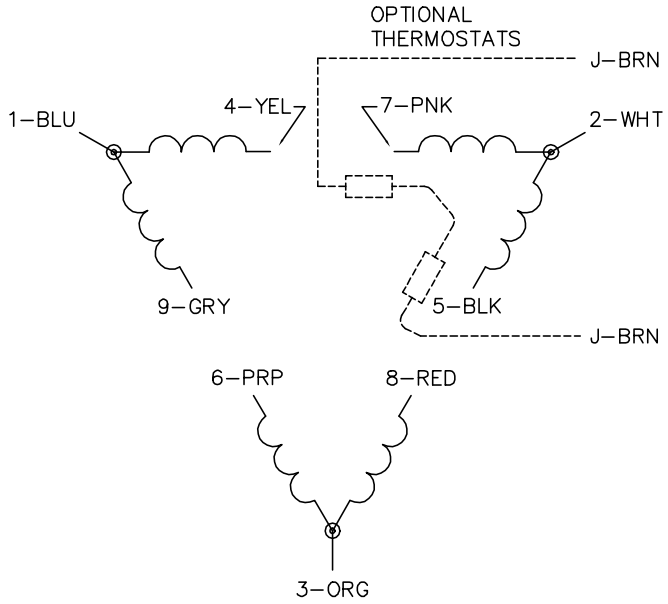
TORQUES(LB-FT): PO=669 PU=263 LR=343 LRA=391

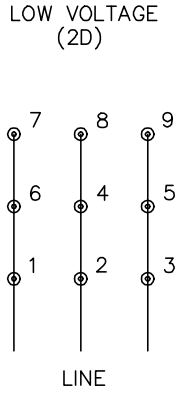
Typical performance - not guaranteed values.

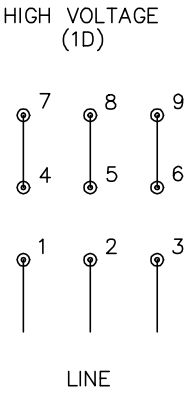



44LYE196
(4436-4456) = 31.72
(4458-4476) = 33.72
7.76
6.06
5.88
.62 KEY
4.25 LONG
Ø 2.375
2.374
GREASER &
PIPE PLUG
(EA. END)
8 HOLES
Ø .65
11.25
11.25
12.25
14.49
1.11
5.88
16.79
14.01
1 LIFTING LUG
(EA. END)
DIAGONALLY
SPACED
17.37
9.00 +.00 -.06
.66
LEAD HOLE
3.62 DIA.
7.00
7.00
11.47
8.50
16.99
CUSTOMER 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

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