

ABB BALDOR RELIANCE III

Customer information packet EM2551T

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

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. @ 25°C		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

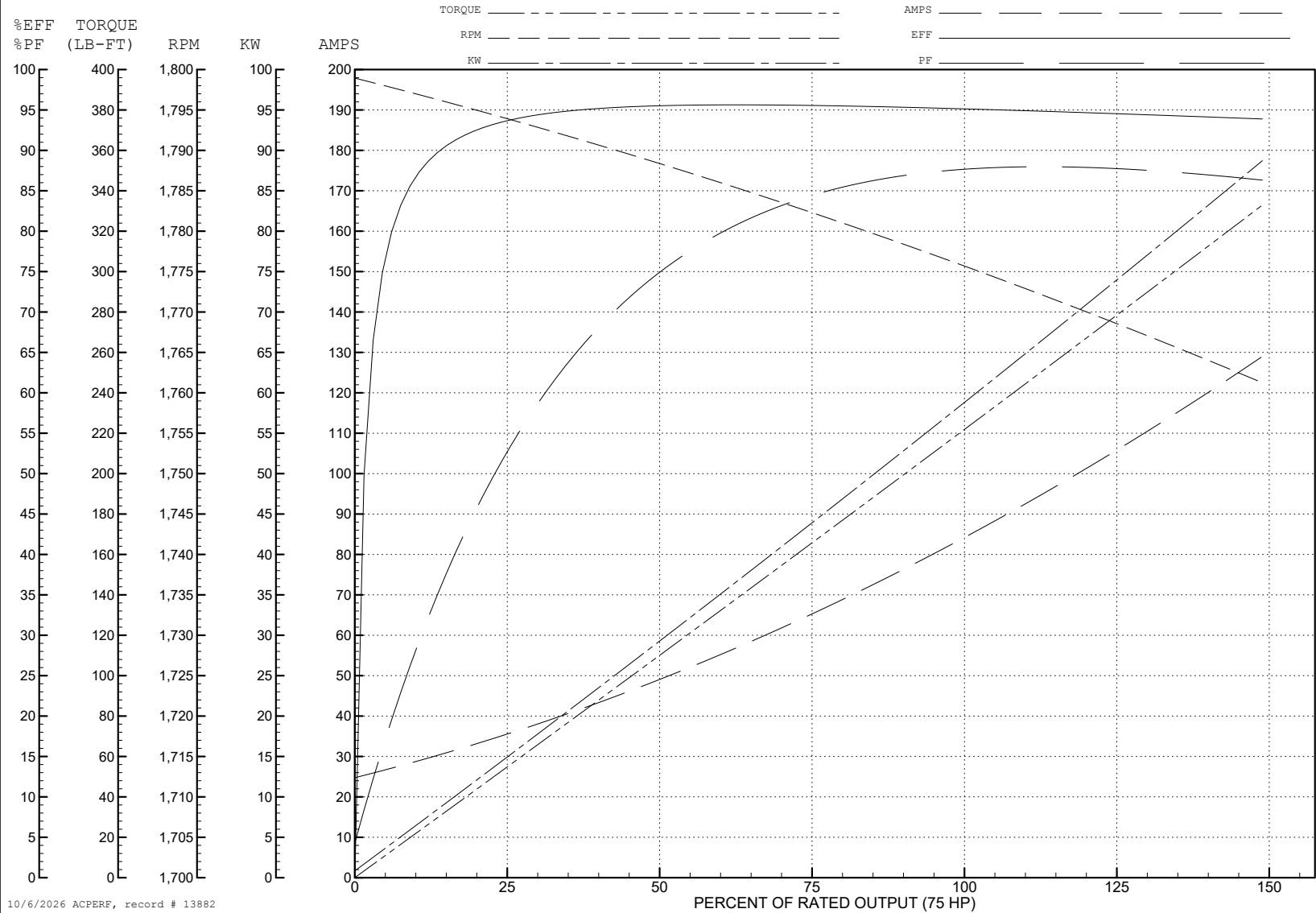
ABB Motors and Mechanical Inc.

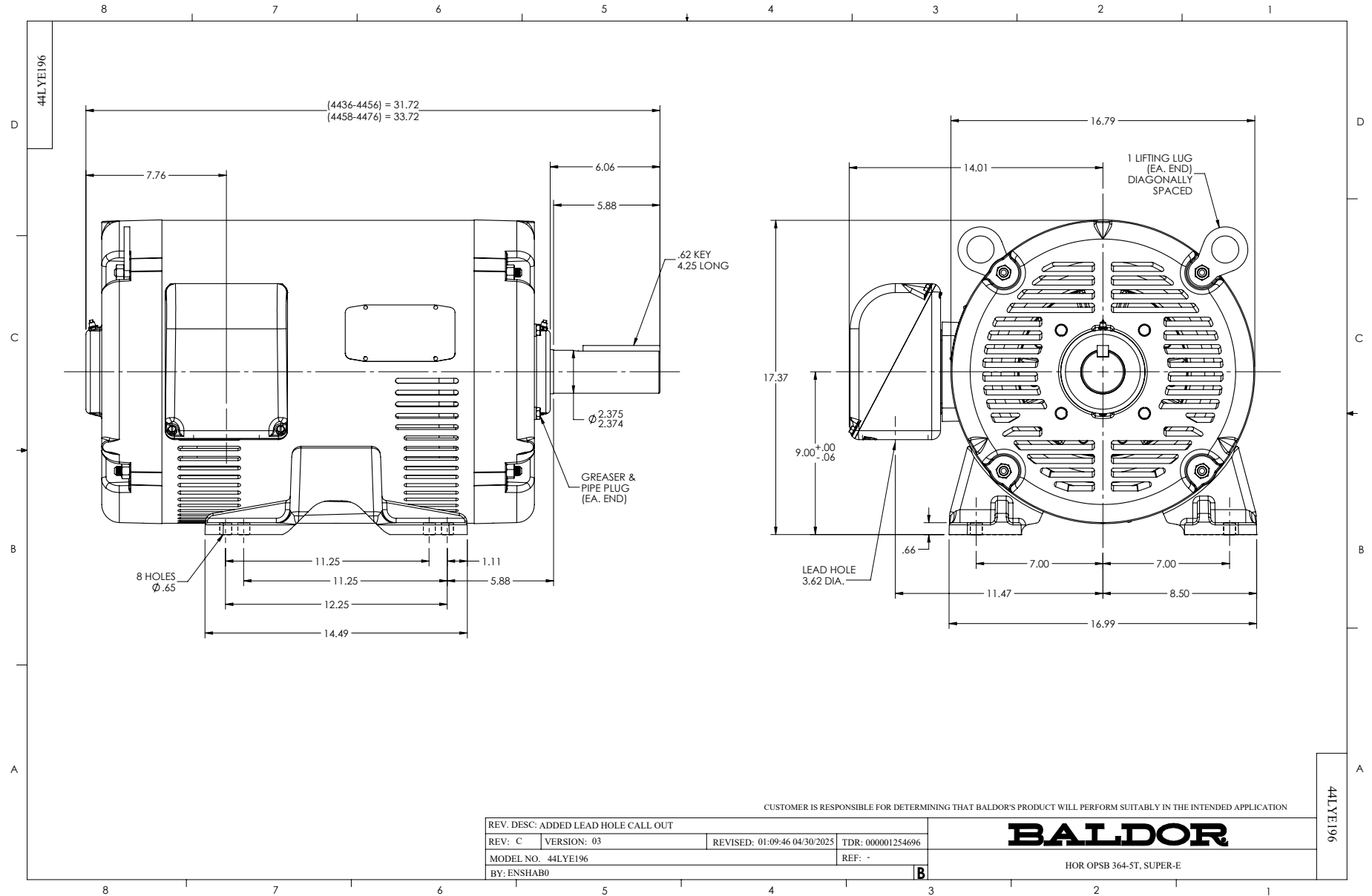
WINDING # 44WG013

Typical performance - not guaranteed values.

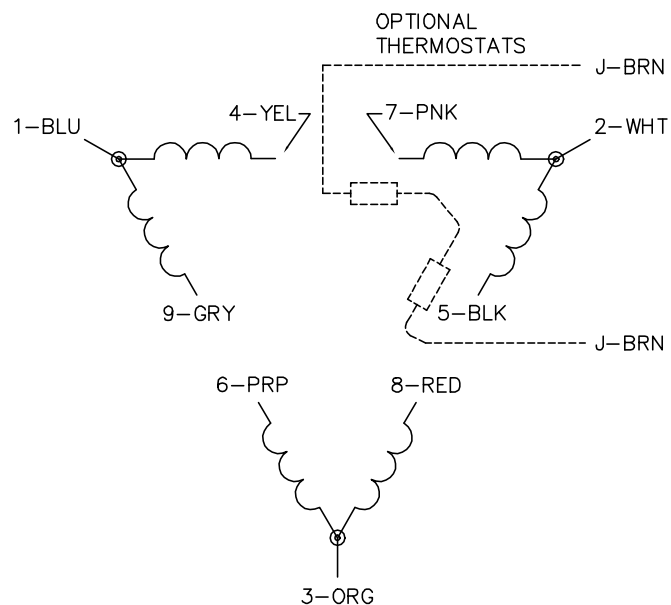
75 HP 3 PH 60 HZ 1775 RPM 460 V 4462M

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

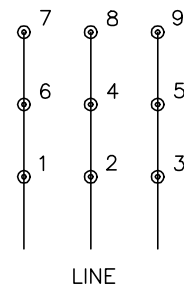




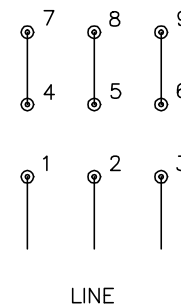
CD0180



LOW VOLTAGE
(2D)



HIGH VOLTAGE
(1D)



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.

REV. DESC: ADD CLASS CONN00000007

REV. LTR: D

VERSION: 01

TDR: 000001099922

FILE: \AAA\00005\148

REVISED: 10: 25: 29 02/19/2019

BY: ENBRIRO

MTL: —



BALDOR - RELIANCE®

3PH, DV, 9 LEADS, DELTA CONNECTION

SH 1 of 1

CD0180