

ABB BALDOR RELIANCE III

Customer information packet

EM2551T-5

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	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			575 V, 60 Hz: Single Voltage Motor		
Rated Output (HP)		75	Full Load Torque		222 LB-FT
Volts		575	Start Configuration		direct on line
Full Load Amps		68	Breakdown Torque		604 LB-FT
R.P.M.		1775	Pull-up Torque		233 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	324 LB-FT
NEMA Design Code	B	KVA Code	F	Starting Current	401 A
Service Factor (S.F.)		1.15	No-load Current		20.4 A
NEMA Nom. Eff.	95	Power Factor	85	Line-line Res. @ 25°C	0.126 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
				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

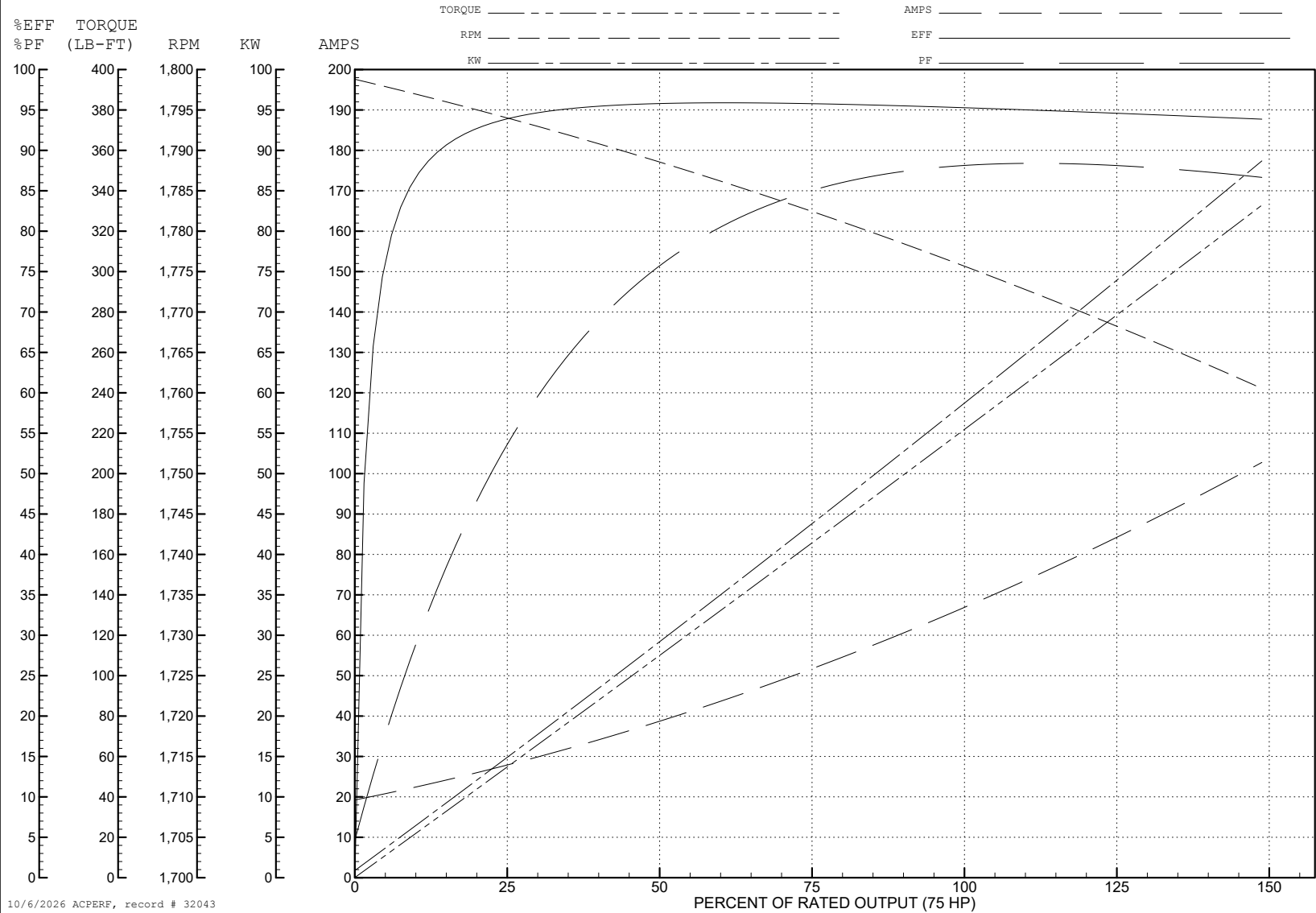
ABB Motors and Mechanical Inc.

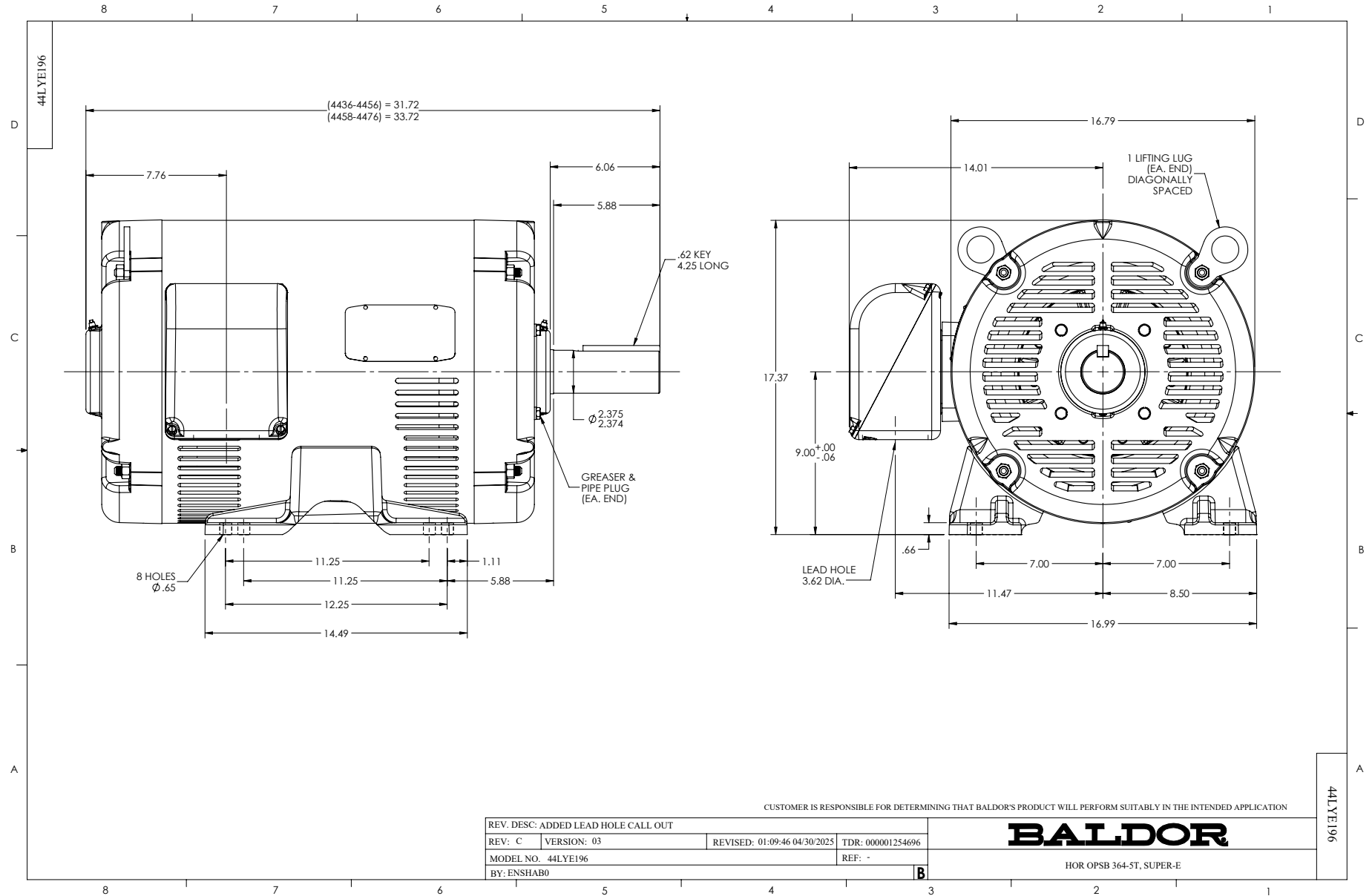
WINDING # 44WG317

Typical performance - not guaranteed values.

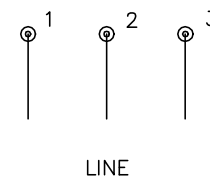
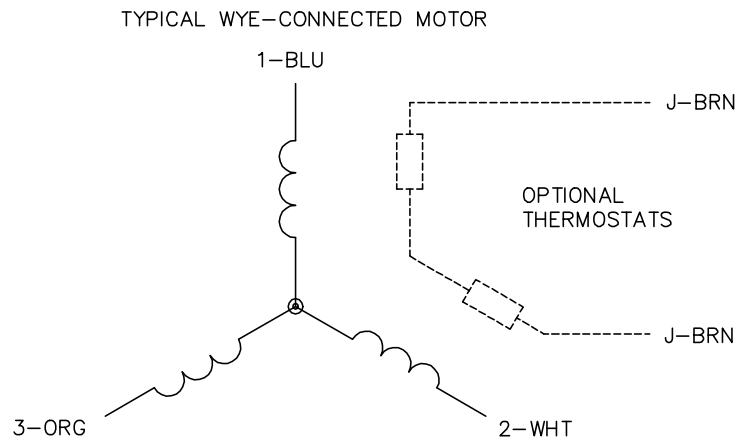
75 HP 3 PH 60 HZ 1775 RPM 575 V 4462M

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





CD0006


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: ENBRIRO

MTL: -


BALDOR - RELIANCE®

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

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