

BALDOR • RELIANCE

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	CSA EEV UR NEMA_PREMIUM NEMA PREMIUM
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary 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

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

KVA Code	F
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-FT ²	

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

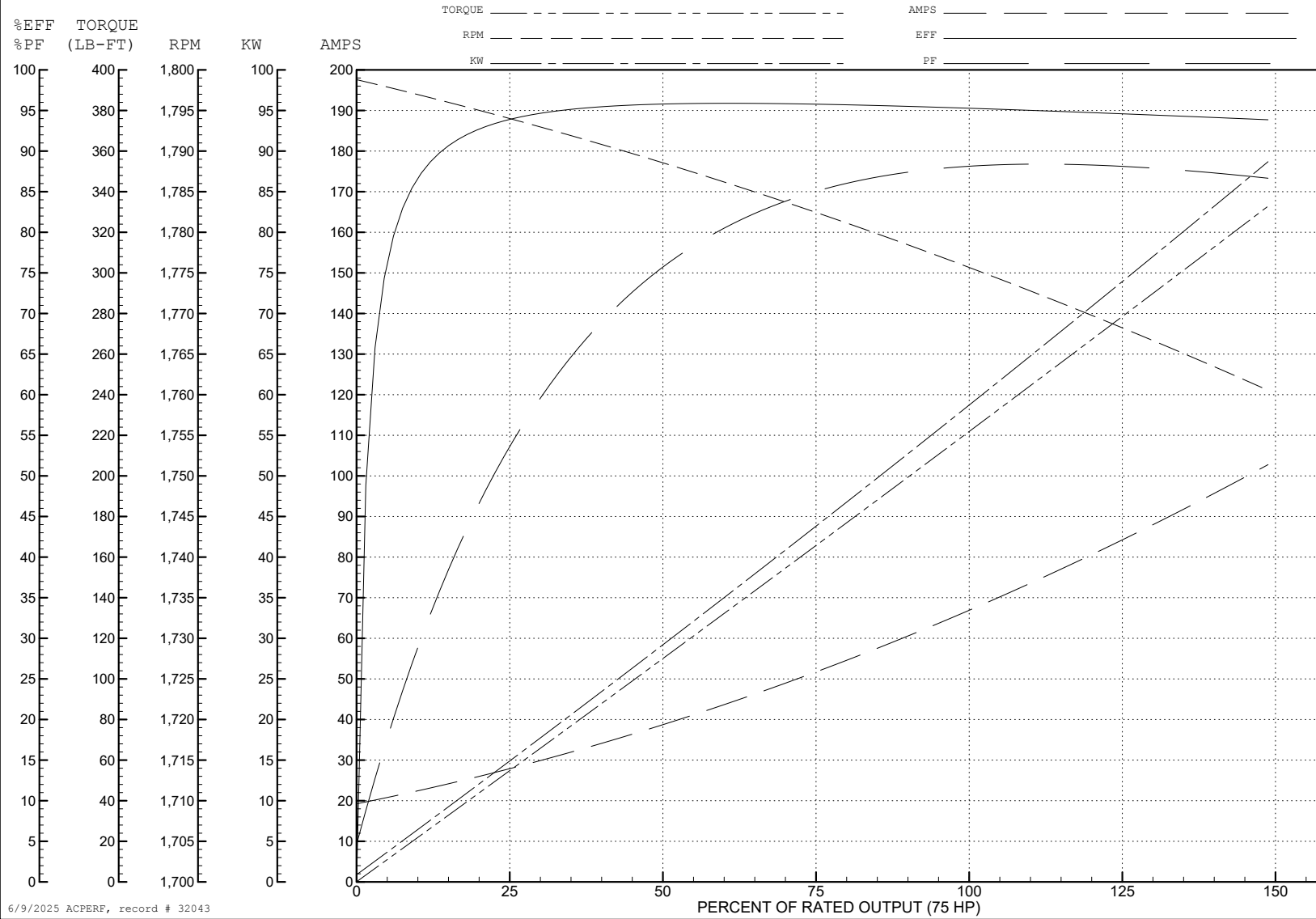
ABB Motors and Mechanical Inc.

WINDING # 44WGW317

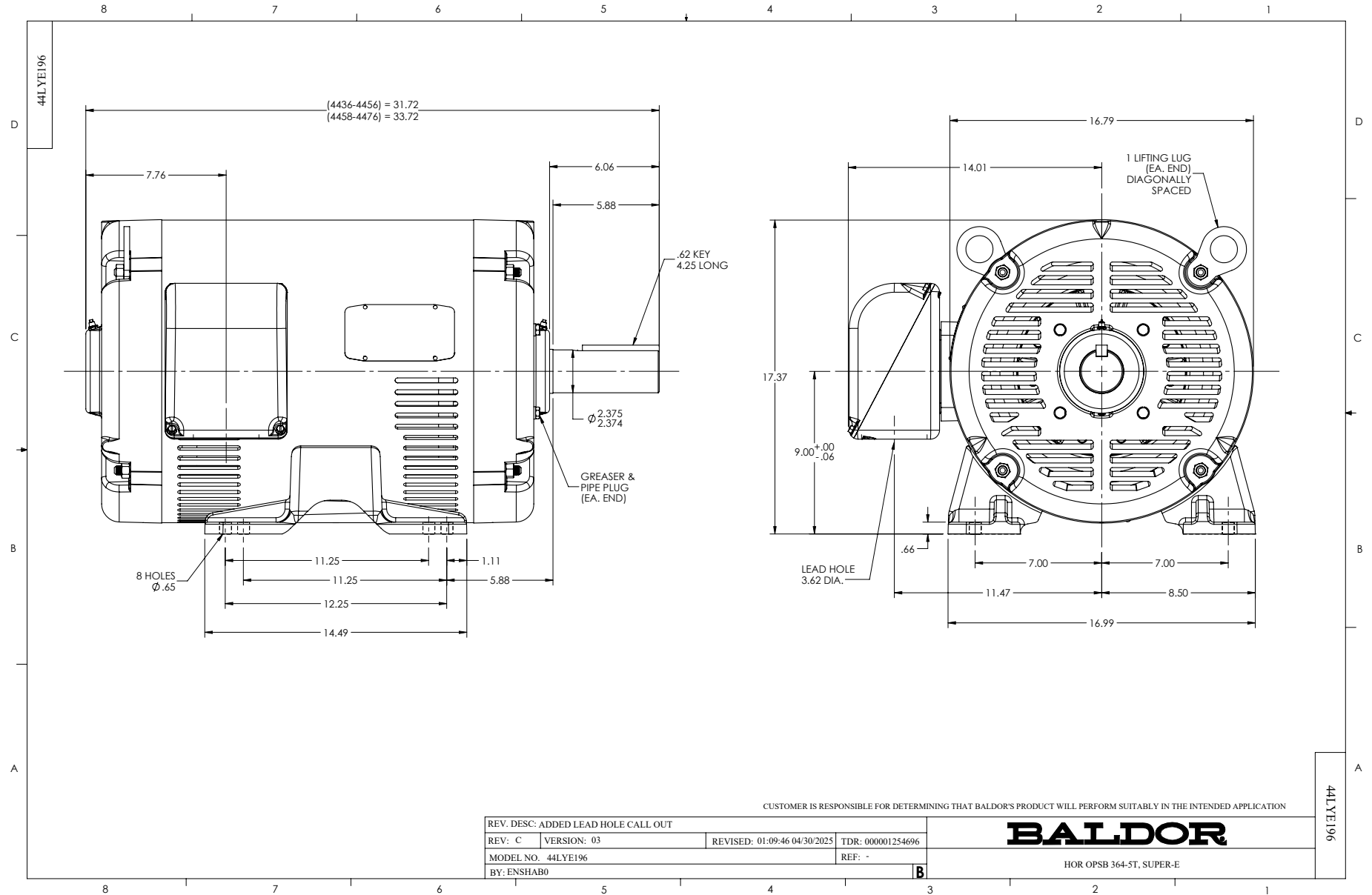
Typical performance - not guaranteed values.

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

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



6/9/2025 ACPERF, record # 32043



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

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

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