ABB BALDOR RELIANCE

Customer information packet

EHM2551T

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	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	CSA
	UR
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 %
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
Inverter Code	Inverter Ready
KVA Code	F

Part Detail

Revision	AF
Type	AC
Mech. spec.	44E125
Base	
Status	PRD/A
Elec. spec.	44WGW013
Layout	44LYE125
Eff. date	11-19-2024
CD Diagram	CD0180
Poles	04
Leads	9#6
Proprietary	False
Created date	01-01-0001

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	Mounting Provisions Only
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

Nameplate

NP2094E06B03									
CAT.NO.	EHM2551T								
SPEC.	44E125W013G1								
HP	75								
VOLTS	230/460								
AMPS	170/85								
RPM	1775								
FRAME	365T	**HZ**	60	**PH**	3				
SER.F.	1.15	**CODE**	F	**DES**	B	**CL**	F		
NEMA-NOM-EFF	95	**PF**	85						
RATING	40C AMB-CONT								
CC	010A	**USABLE AT 208V**		N/A					
DE	6313	**ODE**	6312						
AUTO		**MANUAL**		**NONE**					
ENCL	OPSB	**SN**							
BLANK									

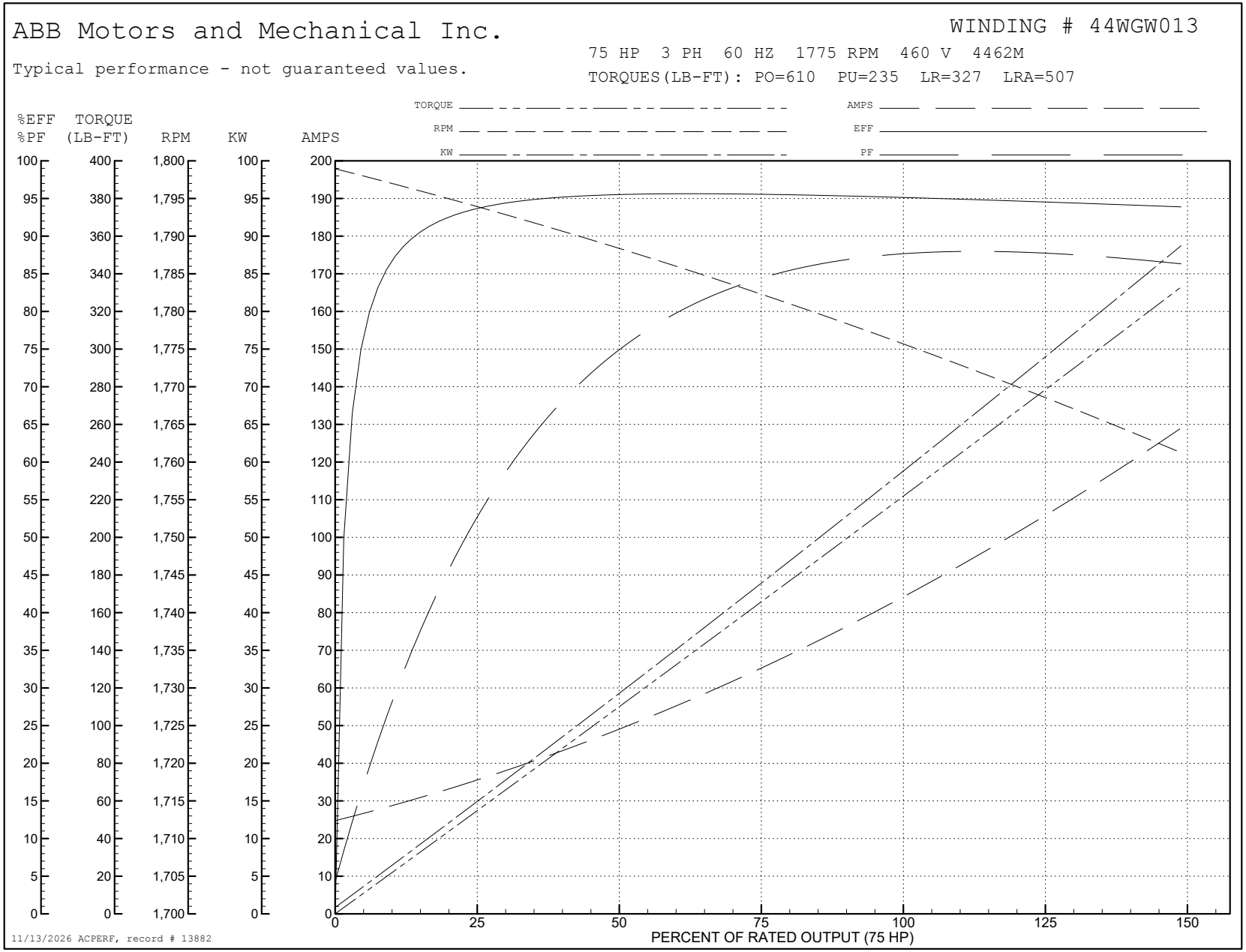
AC Induction Motor Performance Data
Record # 13882
Typical performance - not guaranteed values

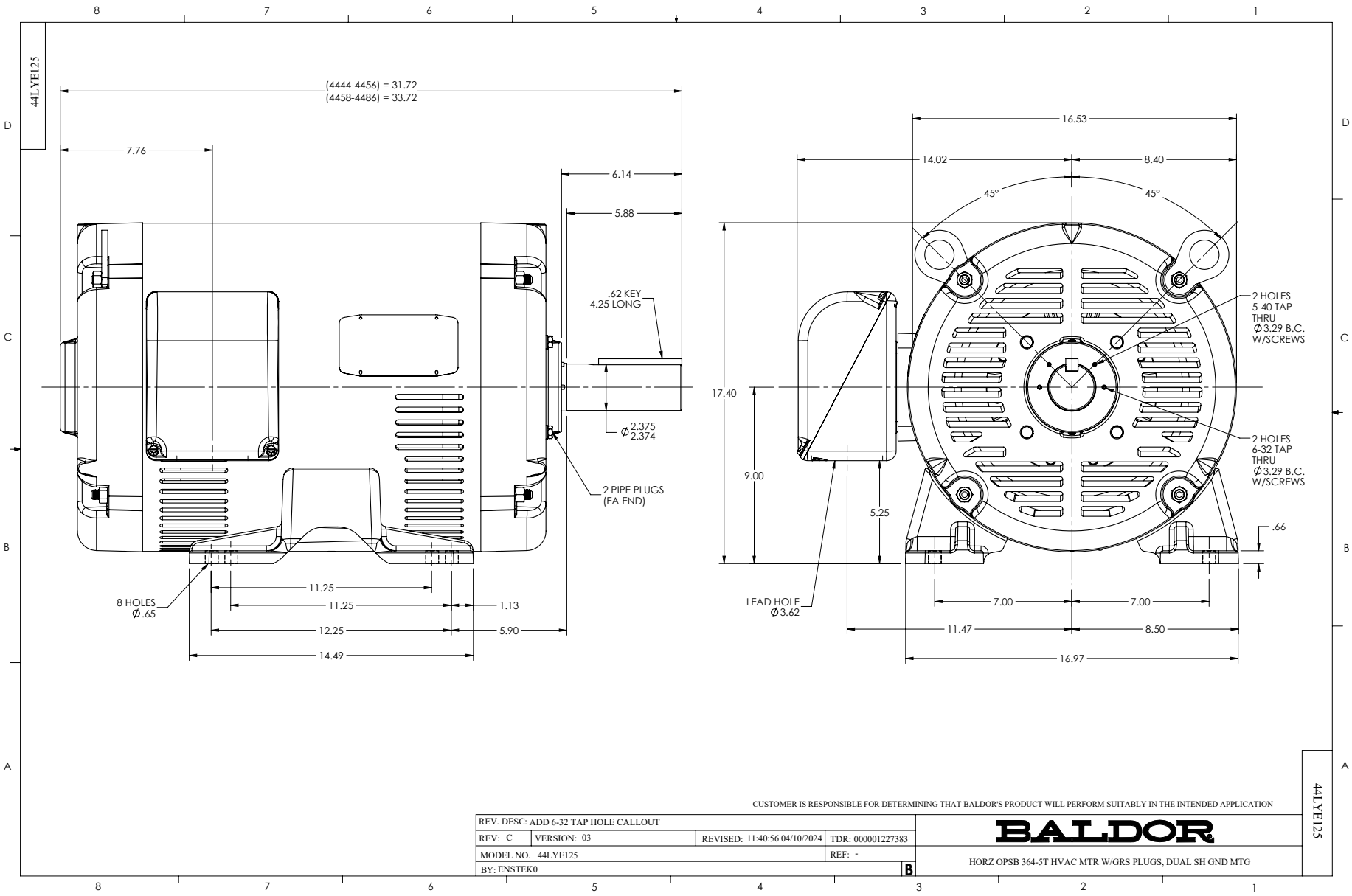
Winding: 44WGW013-R001	**Type:** 4462M	**Enclosure:** OPEN

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. @ 25ºC**	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

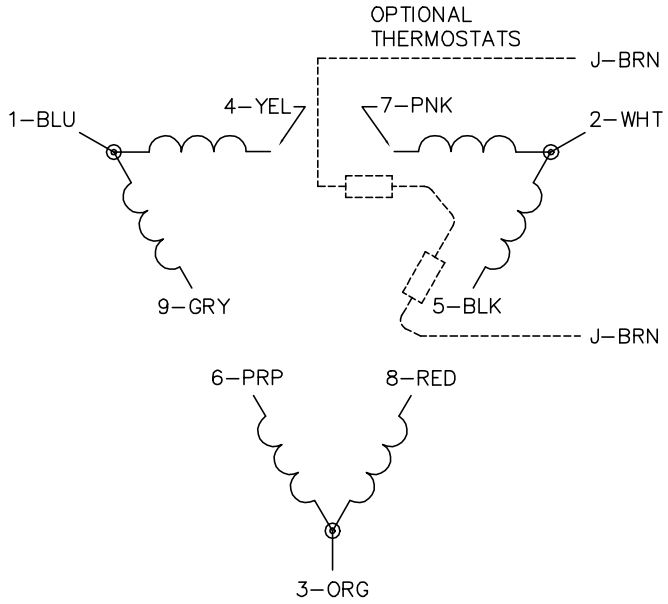
Load Characteristics 460 V, 60 Hz, 75 HP

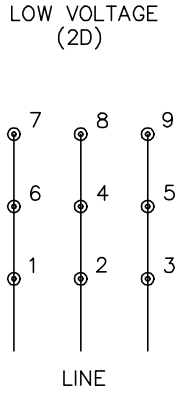
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	56	77	84	86	87	87	87
Efficiency	93.6	95.6	95.4	95.3	94.6	93.9	94.9
Speed	1794	1788	1782	1776	1769	1761	1772
Line amperes	33.9	48	66.1	85.4	106	128	97.76

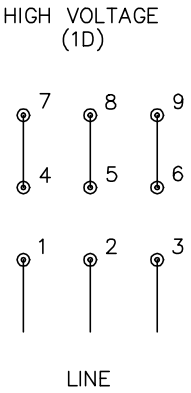

ABB Motors and Mechanical Inc.
WINDING # 44WGW013
75 HP 3 PH 60 HZ 1775 RPM 460 V 4462M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=610 PU=235 LR=327 LRA=507
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (75 HP)
11/13/2026 ACPERF, record # 13882


44LYE125
(4444-4456) = 31.72
(4458-4486) = 33.72
7.76
6.14
5.88
.62 KEY
4.25 LONG
Ø2.375
Ø2.374
2 PIPE PLUGS
(EA END)
8 HOLES
Ø.65
11.25
11.25
1.13
12.25
5.90
14.49
16.53
14.02
8.40
45°
45°
17.40
9.00
5.25
2 HOLES
5-40 TAP
THRU
Ø3.29 B.C.
W/SCREWS
2 HOLES
6-32 TAP
THRU
Ø3.29 B.C.
W/SCREWS
.66
LEAD HOLE
Ø3.62
7.00
7.00
11.47
8.50
16.97
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: ADD 6-32 TAP HOLE CALLOUT
REV: C
VERSION: 03
REVISED: 11:40:56 04/10/2024
TDR: 000001227383
MODEL NO. 44LYE125
REF: -
BY: ENSTEK0
B
BALDOR
HORZ OPSB 364-5T HVAC MTR W/GRS PLUGS, DUAL SH GND MTG
44LYE125

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

SH 1 of 1