BALDOR • RELIANCE

Customer information packet

CEM2554T-4

125HP, 3540RPM, 3PH, 60HZ, 404TSC, 4476M, OPSB

3/25/2025 11:45:48 PM

Specifications

Enclosure	OPSB
Frame	404TSC
Frame Material	Steel
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	125.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CSA EEV NEMA PREMIUM NEMA_PREMIUM UR
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	143.000 A @ 460.0 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
Heater Indicator	No Heater
High Voltage Full Load Amps	143.0 a
Insulation Class	F
Inverter Code	Not Inverter
IP Rating	NONE
KVA Code	G

Part detail

Revision	E
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	44WGW324
Layout	44LYE021
Eff. date	11-19-2024
CD Diagram	CD0382
Poles	02
Leads	6#6
Proprietary	False
Created date	08-19-2021

Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	4476M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	33.59 IN
Power Factor	88
Product Family	General Purpose
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	2.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	3540 rpm
Speed Code	Single Speed
Starting Method	Wye Start - Delta Run
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.	CEM2554T-4		**P/N**			**ENCLOSURE**	OPSB					
SPEC.	44-0000-0086	**CC**	010A	**FRAME**	404TSC	**S/N**						
HP	125		**CLASS**	F	**HZ**	60						
RPM	3540		**PH**	3	**DES**	B						
VOLT	460				**KVA-CODE**	G	**ODE BRG**	6312	**DE BRG**	6313		
AMP	143											
RATING	40C AMB-CONT			**GREASE**	POLYREX EM							
NEMA-NOM-EFF	94.1	**PF**	88	**SER.F.**	1.15							
	50HZ 125HP 380V 170A SF1.0											
HTR-VOLTS		**HTR-AMPS**										

AC Induction Motor Performance Data
Record # 33221
Typical performance - not guaranteed values

Winding: 44WGW324-R001	**Type:** 4476M	**Enclosure:** OPSB

Nameplate Data				**460 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			125	**Full Load Torque**	187 LB-FT
Volts			460	**Start Configuration**	direct on line
Full Load Amps			143	**Breakdown Torque**	554 LB-FT
R.P.M.			3540	**Pull-up Torque**	197 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	295 LB-FT
NEMA Design Code	B	**KVA Code**	G	**Starting Current**	893 A
Service Factor (S.F.)			1.15	**No-load Current**	35.7 A
NEMA Nom. Eff.	94.1	**Power Factor**	88	**Line-line Res. @ 25ºC**	0.038466 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	39°C
S.F. Amps				**Temp. Rise @ S.F. Load**	48°C
				Locked-rotor Power Factor	17.2
				Rotor inertia	9.94 LB-FT2

Load Characteristics 460 V, 60 Hz, 125 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	65	83	87	88	89	88	89
Efficiency	91.9	94.5	94.7	94.3	93.7	92.8	93.9
Speed	3588.6	3581.9	3573.7	3564.4	3553.5	3541.5	3558
Line amperes	51	78.3	108	143	179	217	165

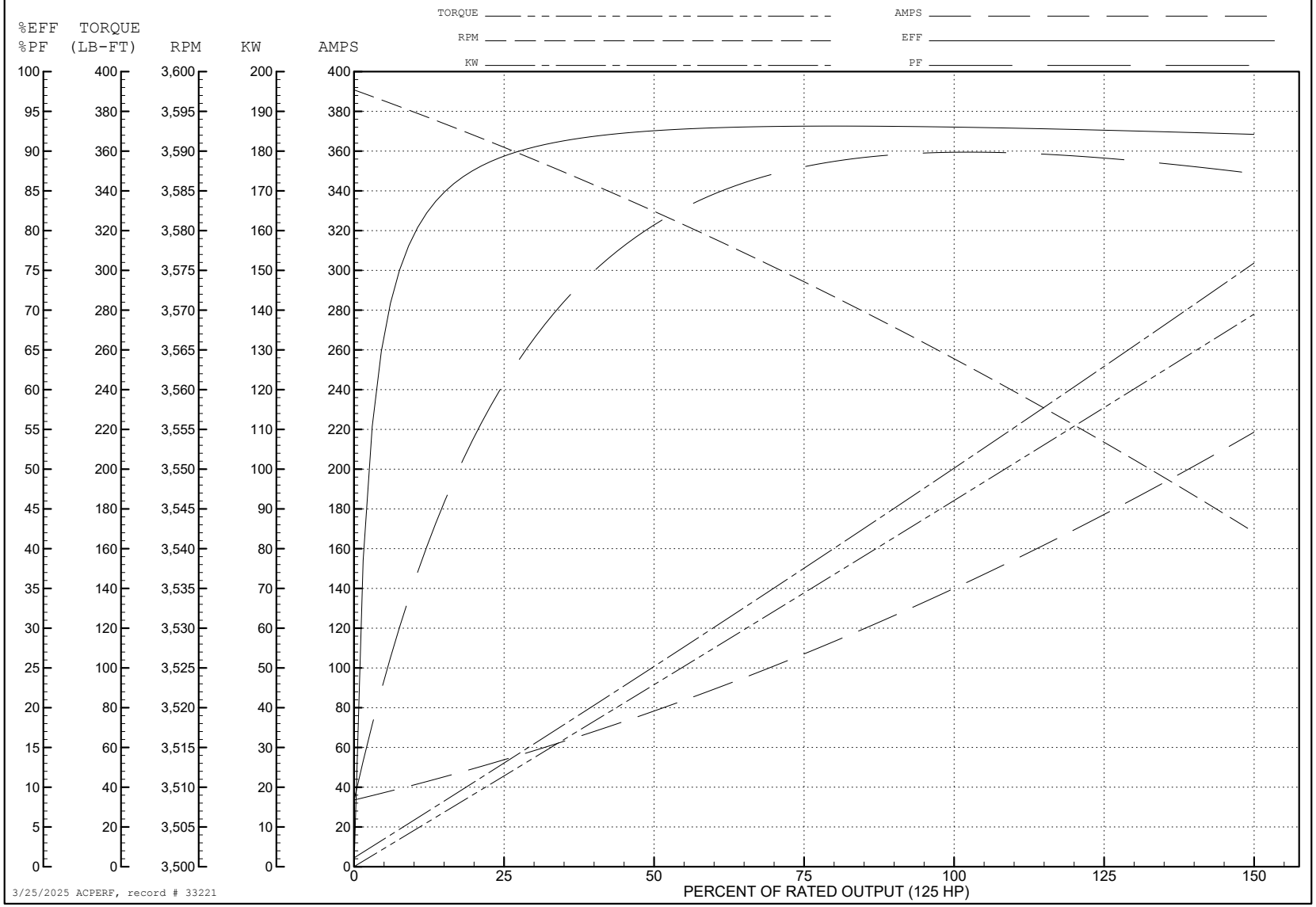
ABB Motors and Mechanical Inc.

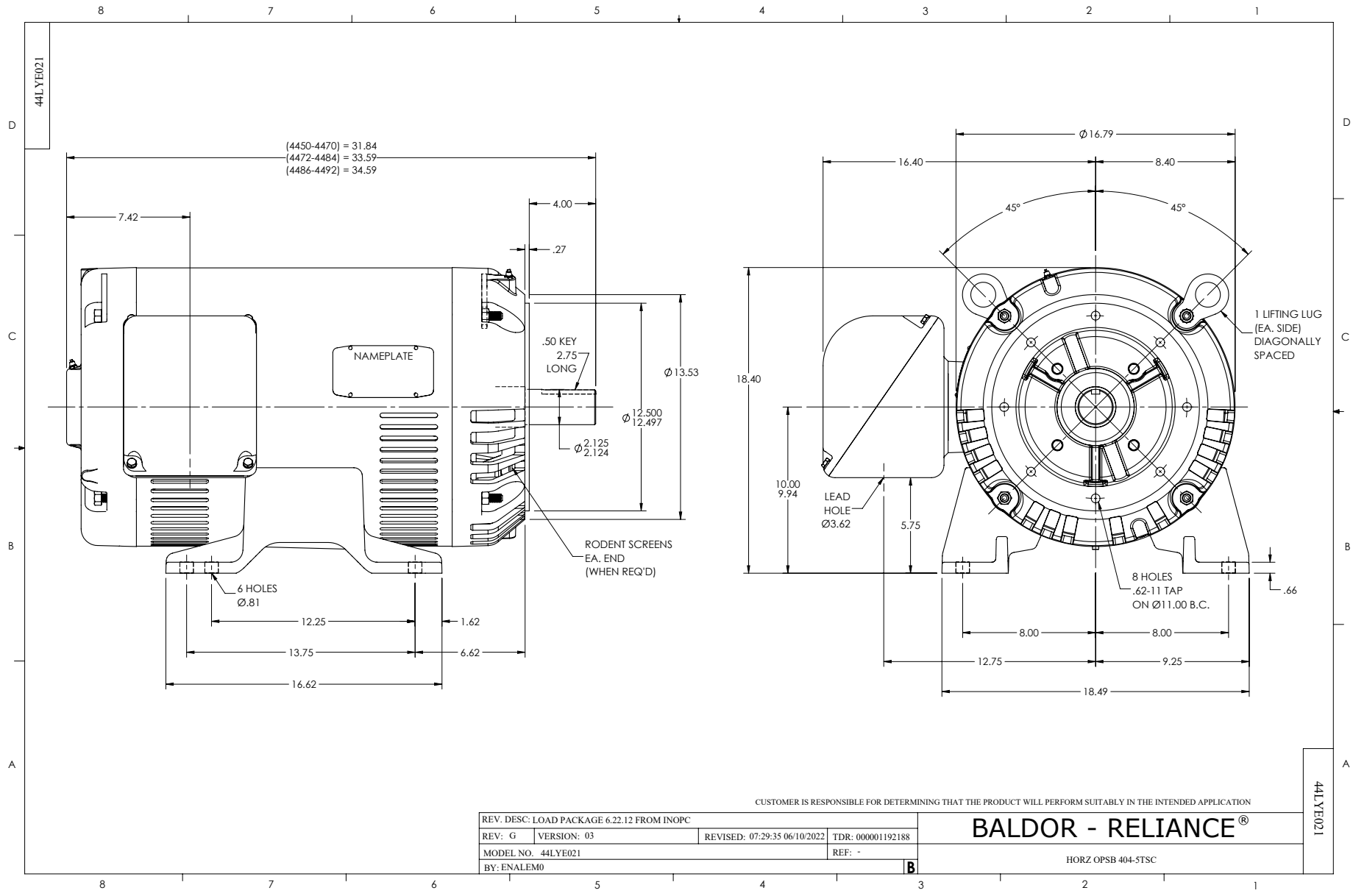
WINDING # 44WGW324

125 HP 3 PH 60 HZ 3540 RPM 460 V 4476M

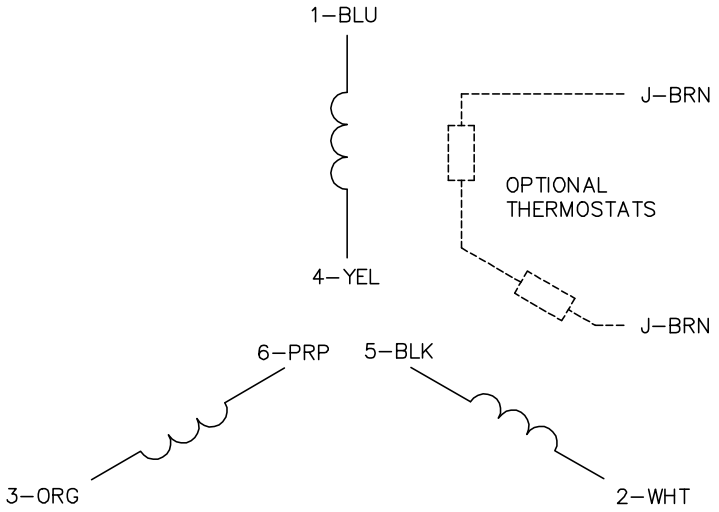
Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=554 PU=197 LR=295 LRA=893

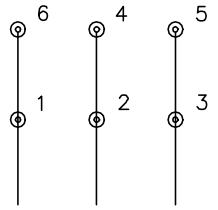



44LYE021
(4450-4470) = 31.84
(4472-4484) = 33.59
(4486-4492) = 34.59
7.42
4.00
.27
NAMEPLATE
.50 KEY
2.75
LONG
Ø13.53
Ø12.500
12.497
Ø2.125
2.124
RODENT SCREENS
EA. END
(WHEN REQ'D)
6 HOLES
Ø.81
12.25
1.62
13.75
6.62
16.62
Ø16.79
16.40
8.40
45°
45°
1 LIFTING LUG
(EA. SIDE)
DIAGONALLY
SPACED
18.40
10.00
9.94
LEAD
HOLE
Ø3.62
5.75
8 HOLES
.62-11 TAP
ON Ø11.00 B.C.
.66
8.00
8.00
12.75
9.25
18.49
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD PACKAGE 6.22.12 FROM INOPC
REV: G
VERSION: 03
REVISED: 07:29:35 06/10/2022
TDR: 000001192188
MODEL NO. 44LYE021
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HORZ OPSB 404-5TSC
44LYE021

CD0382

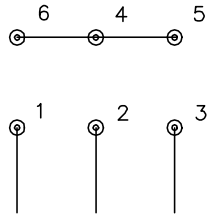


RUN CONNECTION
(1D)



LINE

START CONNECTION
(1Y)



LINE

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.
5. FOR ACROSS–THE–LINE STARTING, USE 'RUN' CONNECTION.

CD0382

REV. DESC: ADD CLASS CONN00000007		
REV. LTR: F	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\243	REVISED: 09:05:32 02/19/2019	BY: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

3PH, SV, 6 LEADS, Y START/D RUN

SH 1 of 1