ABB BALDOR RELIANCE

Customer information packet

CEM2555T

100HP, 1780RPM, 3PH, 60HZ, 404TC, 4484M, OPSB

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Specifications

Enclosure	OPSB
Frame	404TC
Frame Material	Steel
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	100.000 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	CURUSEEV
	NEMA PREMIUM
	NEMA PREMIUM (OLD LOGO)
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	236.000 A @ 230.0 V
	248.000 A @ 208.0 V
	118.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.4 %
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	118.0 a

Part Detail

Revision	U
Type	AC
Mech. spec.	44E013
Base	
Status	PRD/A
Elec. spec.	44WGW308
Layout	44LYE013
Eff. date	11-19-2024
CD Diagram	CD0180
Poles	04
Leads	9#4
Proprietary	False
Created date	07-29-2010

Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 4 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	4484M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	36.97 IN
Power Factor	83
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	2.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1780 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.	CEM2555T			**P/N**					**ENCLOSURE**	OPSB			
SPEC.	44E013W308G1	**CC**	010A		**FRAME**	404TC		**S/N**					
HP	100			**CLASS**	F		**HZ**	60					
RPM	1780			**PH**	3		**DES**	A					
VOLT	230/460				**KVA-CODE**	H			**ODE BRG**	6312	**DE BRG**	6316	
AMP	236/118												
RATING	40C AMB-CONT				**GREASE**	POLYREX EM							
NEMA-NOM-EFF	95.4	**PF**	83	**SER.F.**	1.15								
	50Hz 100Hp 190/380V 280/140A							SF 1.0					
HTR-VOLTS		**HTR-AMPS**											

AC Induction Motor Performance Data
Record # 31771
Typical performance - not guaranteed values

Winding: 44WGW308-R001	**Type:** 4484M	**Enclosure:** OPSB

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			100	**Full Load Torque**	295 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			236/118	**Breakdown Torque**	884 LB-FT
R.P.M.			1780	**Pull-up Torque**	375 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	498 LB-FT
NEMA Design Code	A	**KVA Code**	H	**Starting Current**	852 A
Service Factor (S.F.)			1.15	**No-load Current**	46.4 A
NEMA Nom. Eff.	95.4	**Power Factor**	83	**Line-line Res. @ 25ºC**	0.045551 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	47°C
S.F. Amps				**Temp. Rise @ S.F. Load**	57°C
				Locked-rotor Power Factor	25.3
				Rotor inertia	15.9 LB-FT2

Load Characteristics 460 V, 60 Hz, 100 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	46	70	79	83	85	86	84
Efficiency	92.6	95.3	95.7	95.6	95.2	94.6	95.4
Speed	1794	1789.8	1785.5	1780.7	1775.5	1769.8	1778
Line amperes	54.2	70.6	92.8	118	145	173	134

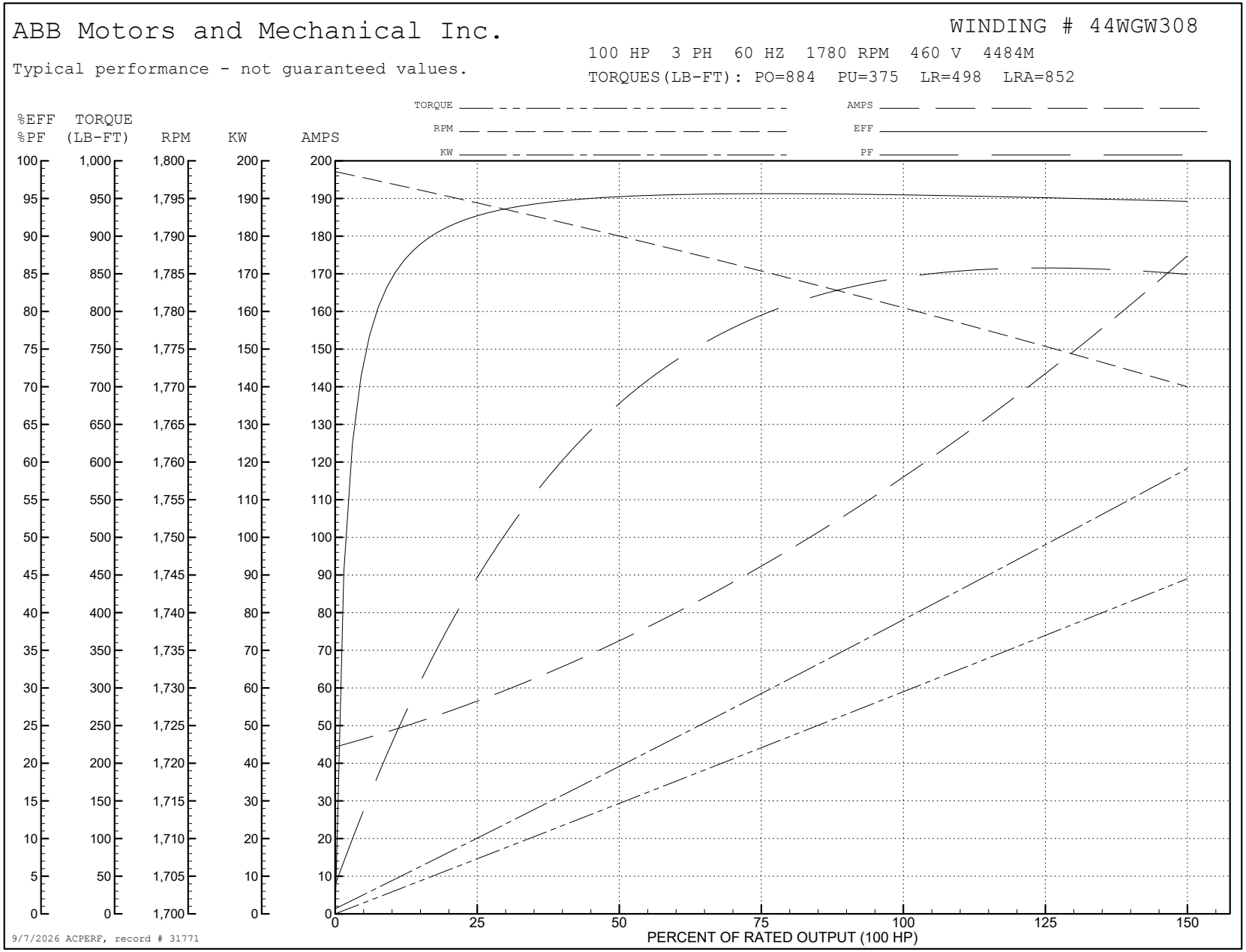
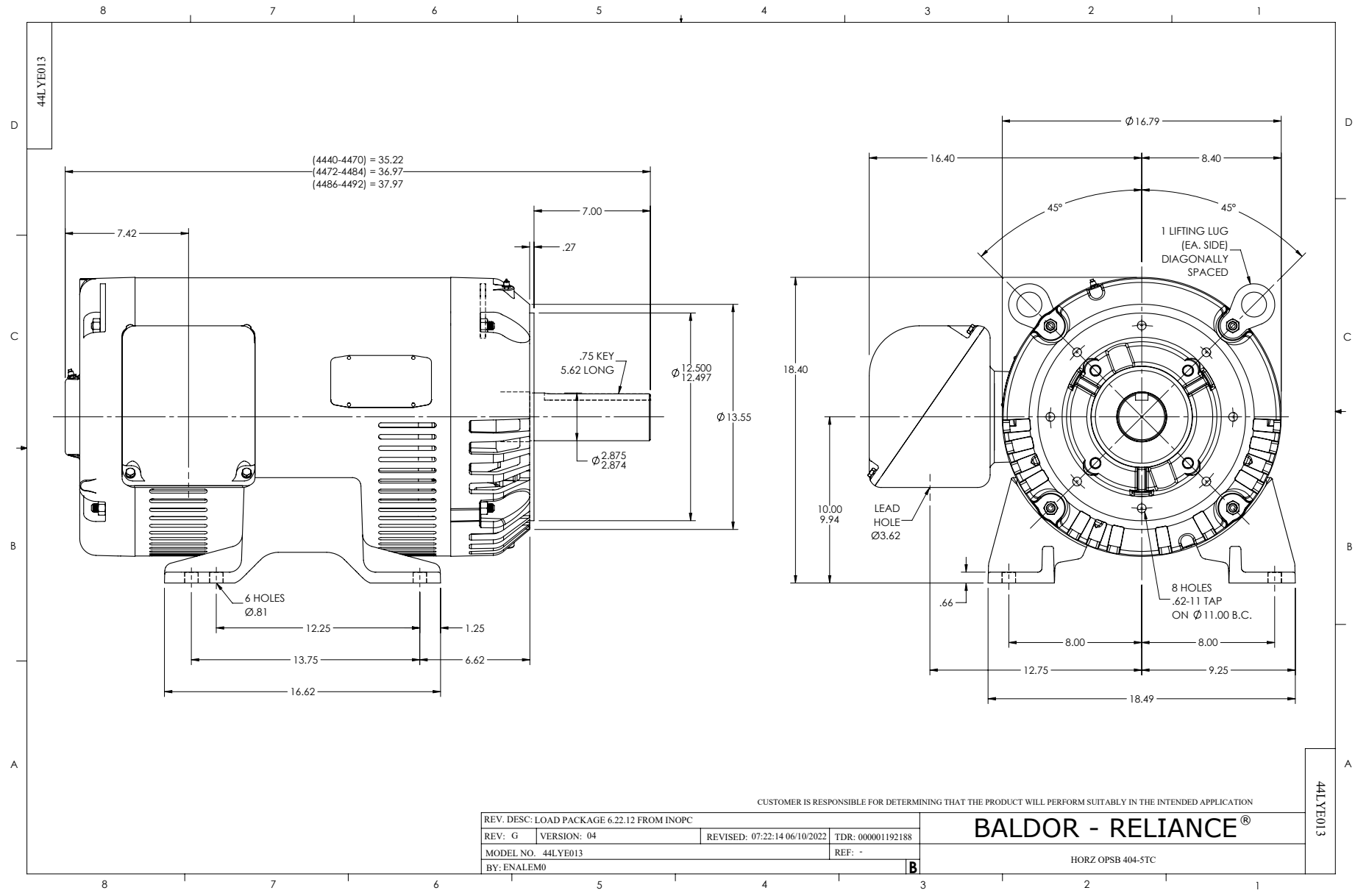
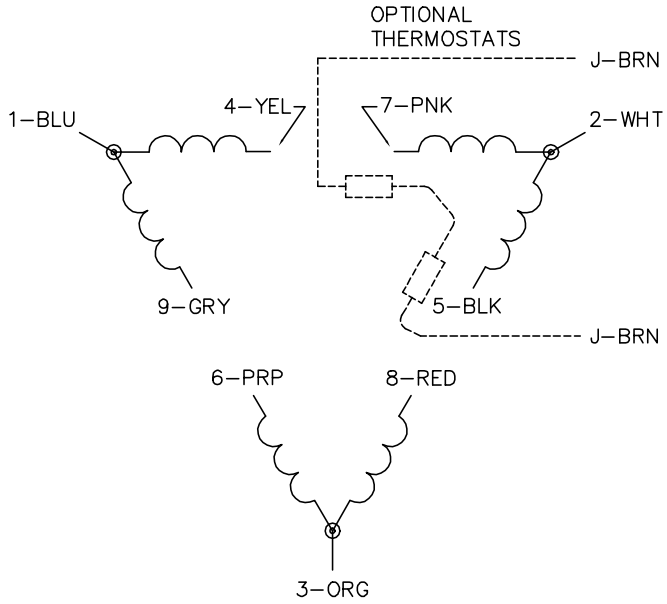
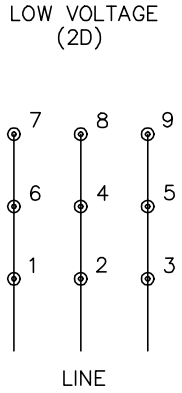


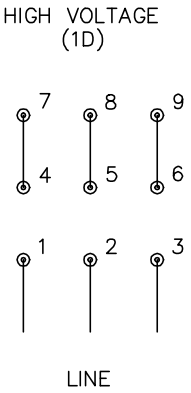
ABB Motors and Mechanical Inc.
WINDING # 44WGW308
100 HP 3 PH 60 HZ 1780 RPM 460 V 4484M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=884 PU=375 LR=498 LRA=852
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (100 HP)
9/7/2026 ACPERF, record # 31771


44LYE013
(4440-4470) = 35.22
(4472-4484) = 36.97
(4486-4492) = 37.97
7.42
7.00
.27
.75 KEY
5.62 LONG
Ø12.500
12.497
Ø13.55
Ø2.875
2.874
6 HOLES
Ø.81
12.25
1.25
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
.66
8 HOLES
.62-11 TAP
ON Ø11.00 B.C.
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: 04
REVISED: 07:22:14 06/10/2022
TDR: 000001192188
MODEL NO. 44LYE013
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HORZ OPSB 404-5TC
44LYE013

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