

**BALDOR® • RELIANCE™**

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# Customer information packet

## CEM2555T

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

## 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	460.0 V @ 60 HZ 230.0 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	248.000 A @ 208.0 V 236.000 A @ 230.0 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

## 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

High Voltage Full Load Amps	118.0 a
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**

<b>CAT.NO.</b>	CEM2555T	<b>P/N</b>		<b>ENCLOSURE</b>	OPSB		
<b>SPEC.</b>	44E013W308G1	<b>CC</b>	010A	<b>FRAME</b>	404TC	<b>S/N</b>	
<b>HP</b>	100	<b>CLASS</b>	F	<b>HZ</b>	60		
<b>RPM</b>	1780	<b>PH</b>	3	<b>DES</b>	A		
<b>VOLT</b>	230/460	<b>KVA-CODE</b>	H	<b>ODE BRG</b>	6312	<b>DE BRG</b>	6316
<b>AMP</b>	236/118						
<b>RATING</b>	40C AMB-CONT	<b>GREASE</b>	POLYREX EM				
<b>NEMA-NOM-EFF</b>	95.4	<b>PF</b>	83	<b>SER.F.</b>	1.15		
	50Hz 100Hp 190/380V 280/140A			SF 1.0			
<b>HTR-VOLTS</b>		<b>HTR-AMPS</b>					

**AC Induction Motor Performance Data**

Record # 31771

Typical performance - not guaranteed values

<b>Winding: 44WGW308-R001</b>		<b>Type: 4484M</b>		<b>Enclosure: OPSB</b>	
<b>Nameplate Data</b>			<b>460 V, 60 Hz: High Voltage Connection</b>		
<b>Rated Output (HP)</b>	100	<b>Full Load Torque</b>	295 LB-FT		
<b>Volts</b>	230/460	<b>Start Configuration</b>	direct on line		
<b>Full Load Amps</b>	236/118	<b>Breakdown Torque</b>	884 LB-FT		
<b>R.P.M.</b>	1780	<b>Pull-up Torque</b>	375 LB-FT		
<b>Hz</b>	60 <b>Phase</b>	3	<b>Locked-rotor Torque</b>	498 LB-FT	
<b>NEMA Design Code</b>	A <b>KVA Code</b>	H	<b>Starting Current</b>	852 A	
<b>Service Factor (S.F.)</b>	1.15	<b>No-load Current</b>	46.4 A		
<b>NEMA Nom. Eff.</b>	95.4 <b>Power Factor</b>	83	<b>Line-line Res. @ 25°C</b>	0.045551 Ω	
<b>Rating - Duty</b>	40C AMB-CONT	<b>Temp. Rise @ Rated Load</b>	47°C		
<b>S.F. Amps</b>		<b>Temp. Rise @ S.F. Load</b>	57°C		
		<b>Locked-rotor Power Factor</b>	25.3		
		<b>Rotor inertia</b>	15.9 LB-FT <sup>2</sup>		

**Load Characteristics 460 V, 60 Hz, 100 HP**

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

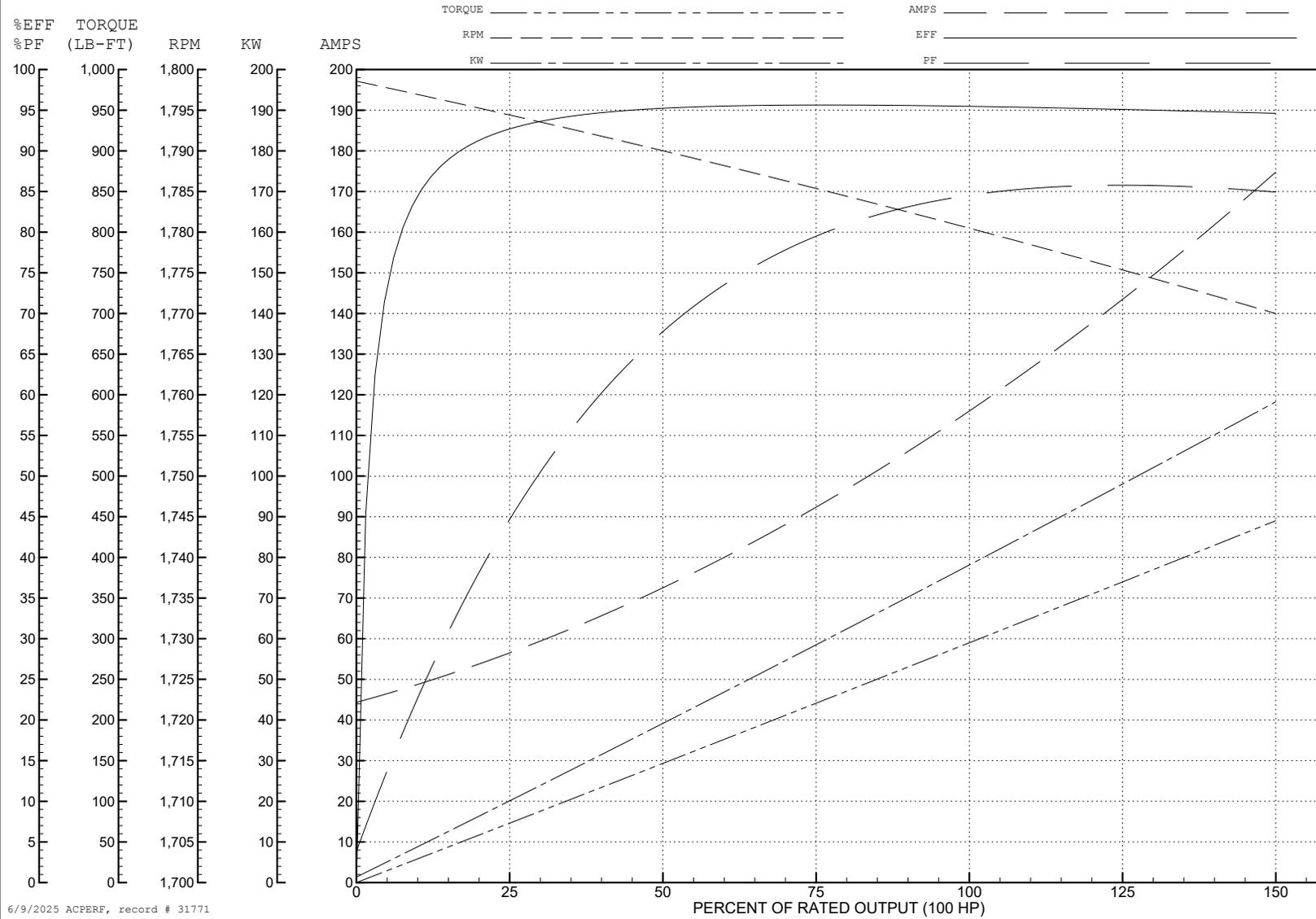
ABB Motors and Mechanical Inc.

WINDING # 44WGW308

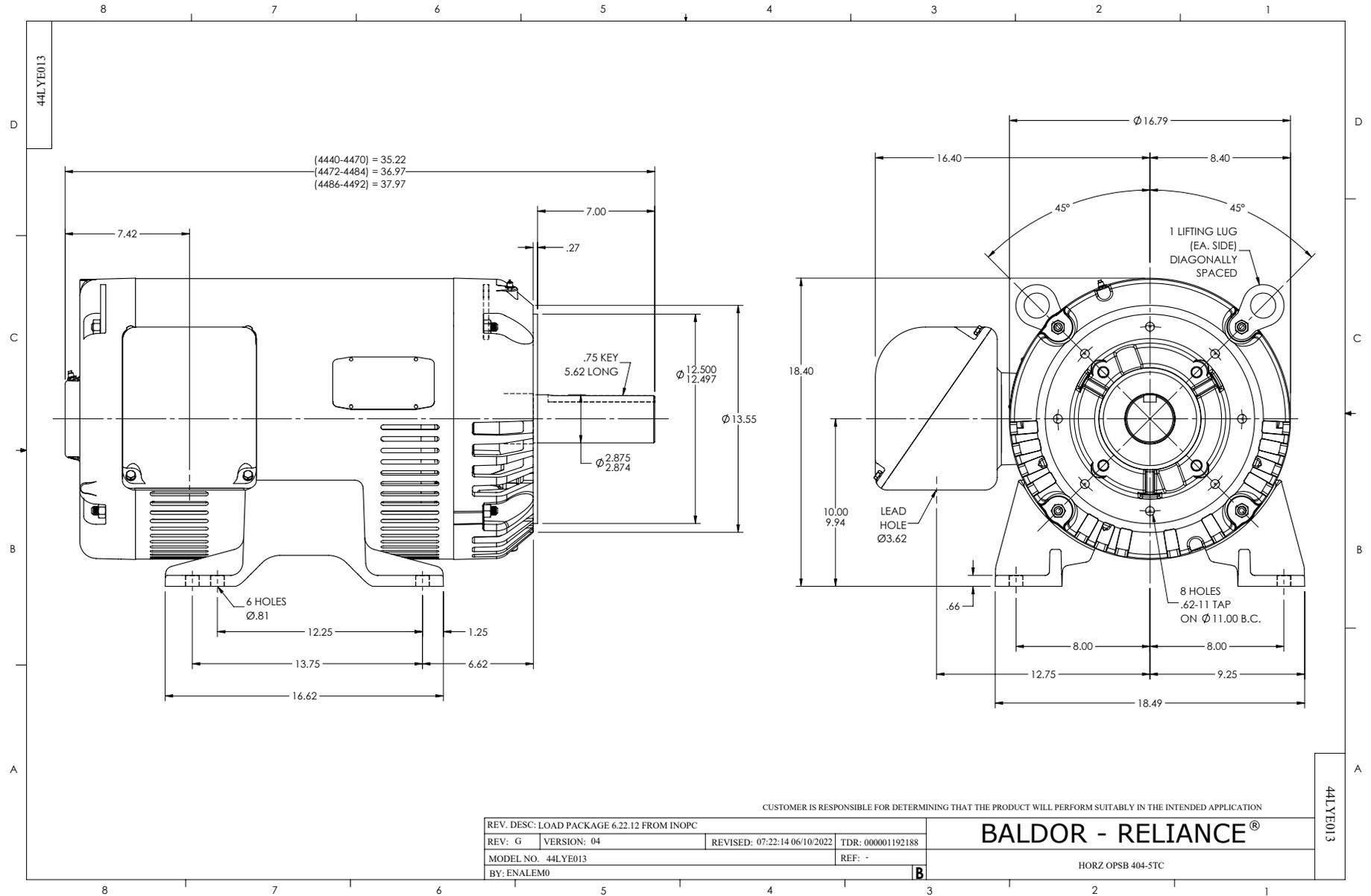
Typical performance - not guaranteed values.

100 HP 3 PH 60 HZ 1780 RPM 460 V 4484M

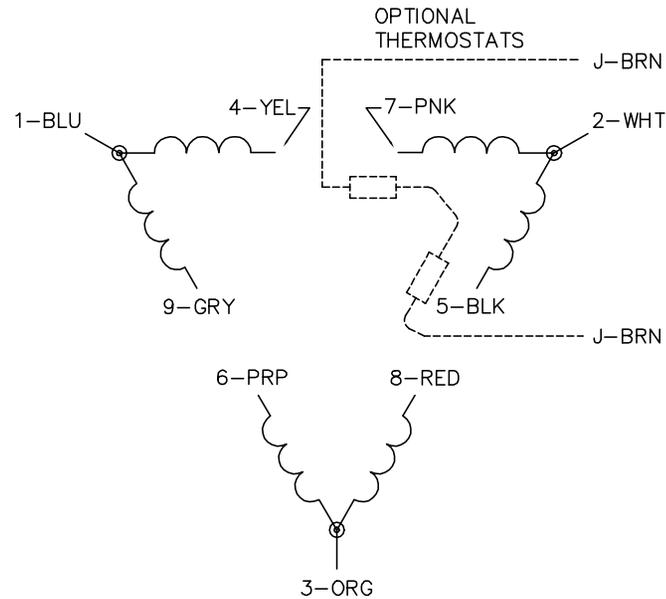
TORQUES (LB-FT): PO=884 PU=375 LR=498 LRA=852



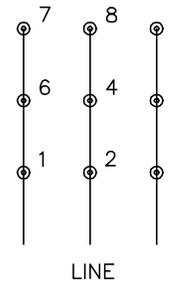
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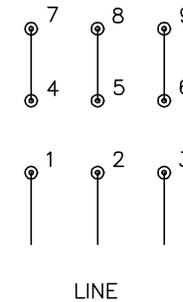
CD0180



LOW VOLTAGE  
(2D)



HIGH VOLTAGE  
(1D)



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

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3PH, DV, 9 LEADS, DELTA CONNECTION

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