

BALDOR® • RELIANCE™

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

CAT.NO.	CEM2555T	P/N		ENCLOSURE	OPSB
SPEC.	44E013W308G1	CC	010A	FRAME	404TC
HP	100	CLASS	F	HZ	60
RPM	1780	PH	3	DES	A
VOLT	230/460	KVA-CODE	H	ODE BRG	6312
AMP	236/118	DE BRG			6316
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. @ 25°C	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-FT ²			

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

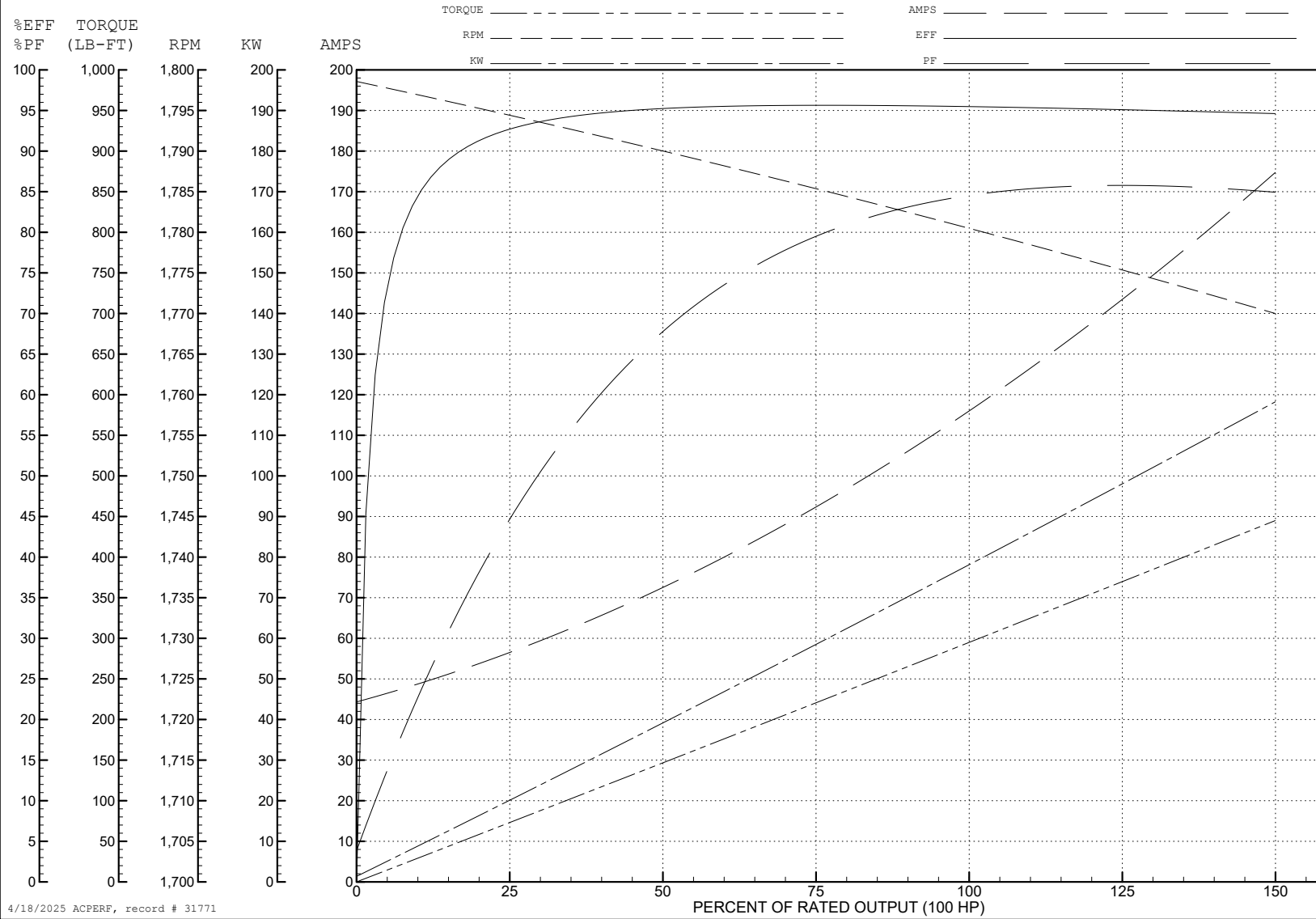
ABB Motors and Mechanical Inc.

WINDING # 44WG308

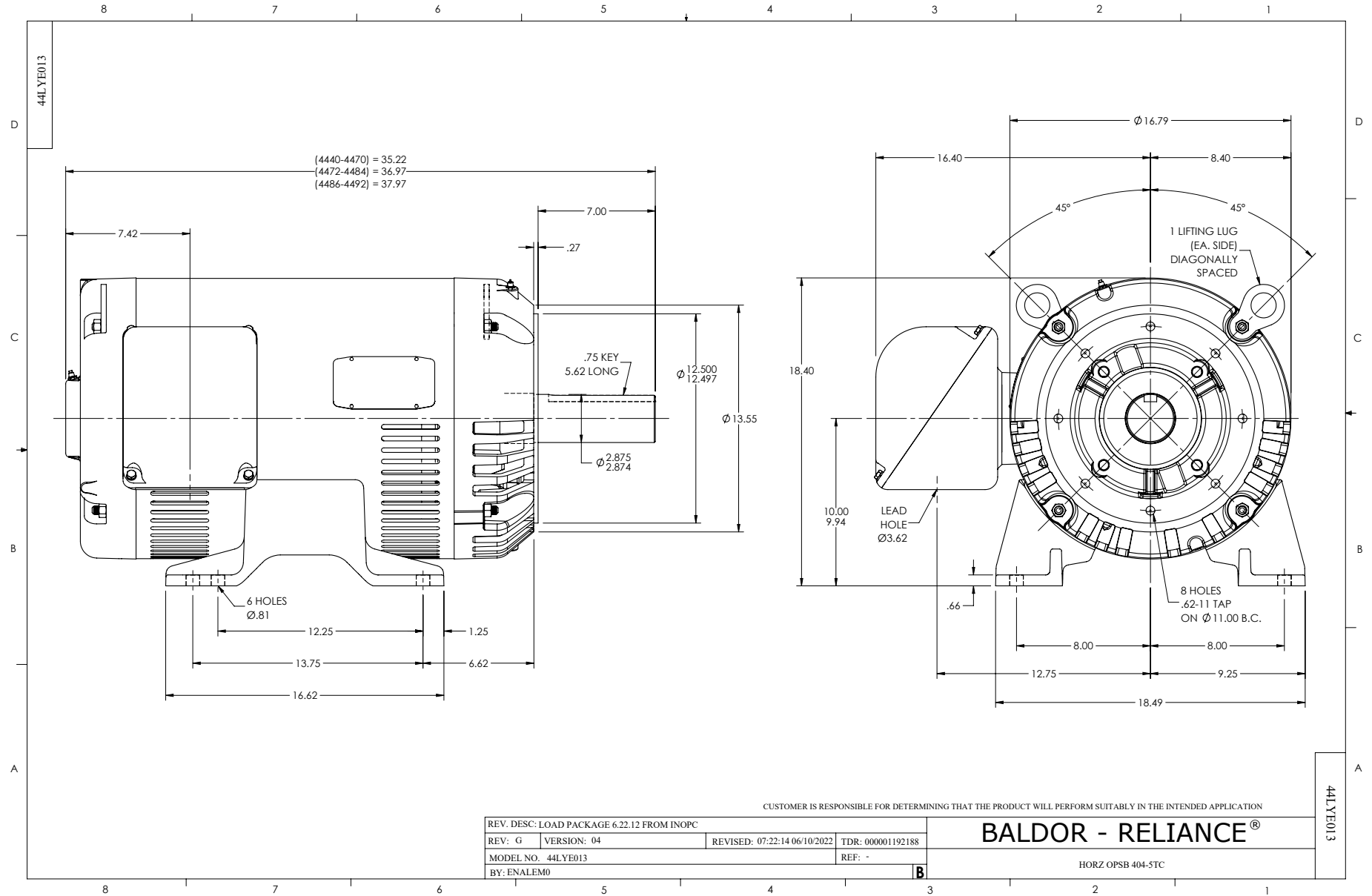
Typical performance - not guaranteed values.

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

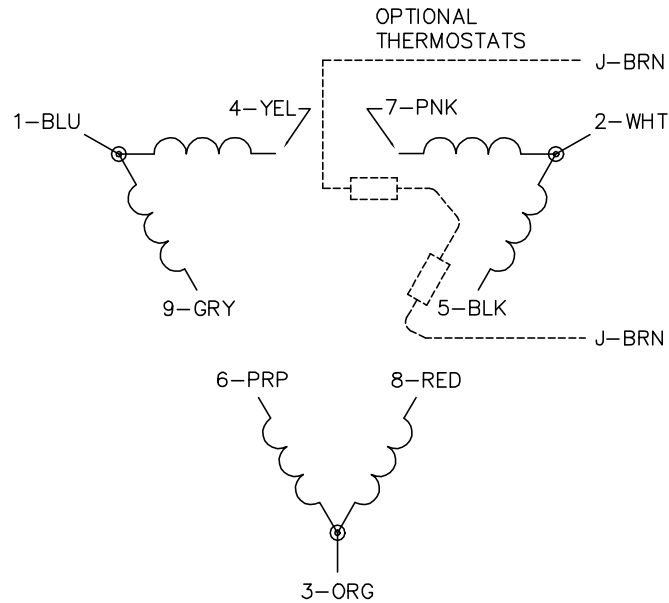
TORQUES (LB-FT): PO=884 PU=375 LR=498 LRA=852



4/18/2025 ACPERF, record # 31771



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

REV. DESC: ADD CLASS CONN00000007		
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3PH, DV, 9 LEADS, DELTA CONNECTION

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