

BALDOR® • RELIANCE 

Product Information Packet

CEM2551T

75HP,1775RPM,3PH,60HZ,365TC,4462M,OPSB,F

Part Detail							
Revision:	S	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	44WGW013	CD Diagram:	CD0180	Mfg Plant:	
Mech. Spec:	44D052	Layout:	44LYD052	Poles:	04	Created Date:	08-03-2010
Base:	RG	Eff. Date:	11-29-2023	Leads:	9#6		

Specs			
Catalog Number:	CEM2551T	Insulation Class:	F
Enclosure:	OPSB	Inverter Code:	Inverter Ready
Frame:	365TC	KVA Code:	F
Frame Material:	Steel	Lifting Lugs:	Standard Lifting Lugs
Motor Letter Type:	Three Phase	Locked Bearing Indicator:	Locked Bearing
Output @ Frequency:	75.000 HP @ 60 HZ	Motor Lead Quantity/Wire Size:	9 @ 6 AWG
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ	Motor Lead Exit:	Ko Box
Voltage @ Frequency:	460.0 V @ 60 HZ	Motor Lead Termination:	Flying Leads
	230.0 V @ 60 HZ	Motor Type:	4462M
Agency Approvals:	CSA EEV	Mounting Arrangement:	F1
	NEMA PREMIUM	Power Factor:	85
	NEMA_PREMIUM	Product Family:	General Purpose
	UR	Pulley End Bearing Type:	Ball
Auxillary Box:	No Auxillary Box	Pulley Face Code:	C-Face
Auxillary Box Lead Termination:	None	Pulley Shaft Indicator:	Standard
Base Indicator:	Rigid	Rodent Screen:	None
Bearing Grease Type:	Polyrex EM (-20F +300F)	Shaft Extension Location:	Pulley End
Blower:	None	Shaft Ground Indicator:	No Shaft Grounding

Current @ Voltage:	85.000 A @ 460.0 V	Shaft Rotation:	Reversible
	170.000 A @ 230.0 V	Shaft Slinger Indicator:	No Slinger
Design Code:	B	Speed Code:	Single Speed
Drip Cover:	No Drip Cover	Motor Standards:	NEMA
Duty Rating:	CONT	Starting Method:	Direct on line
Electrically Isolated Bearing:	Not Electrically Isolated	Thermal Device - Bearing:	None
Feedback Device:	NO FEEDBACK	Thermal Device - Winding:	None
Front Face Code:	Standard	Vibration Sensor Indicator:	No Vibration Sensor
Front Shaft Indicator:	None	Winding Thermal 1:	None
Heater Indicator:	No Heater	Winding Thermal 2:	None

Nameplate NP2138LUA											
CAT.NO.	CEM2551T			P/N				ENCLOSURE	OPSB		
SPEC.	44D052W013G1		CC	010A		FRAME	365TC		S/N		
HP	75			CLASS	F		HZ	60			
RPM	1775			PH	3		DES	B			
VOLT	230/460			KVA-CODE	F		ODE BRG	6312		DE BRG	6313
AMP	170/85										
RATING	40C AMB-CONT			GREASE	POLYREX EM						
NEMA-NOM-EFF	95	PF	85	SER.F.	1.15						
HTR-VOLTS	50Hz 75Hp 190/380V 160/80A					SF 1.0					
HTR-AMPS											

AC Induction Motor Performance Data

Record # 13882

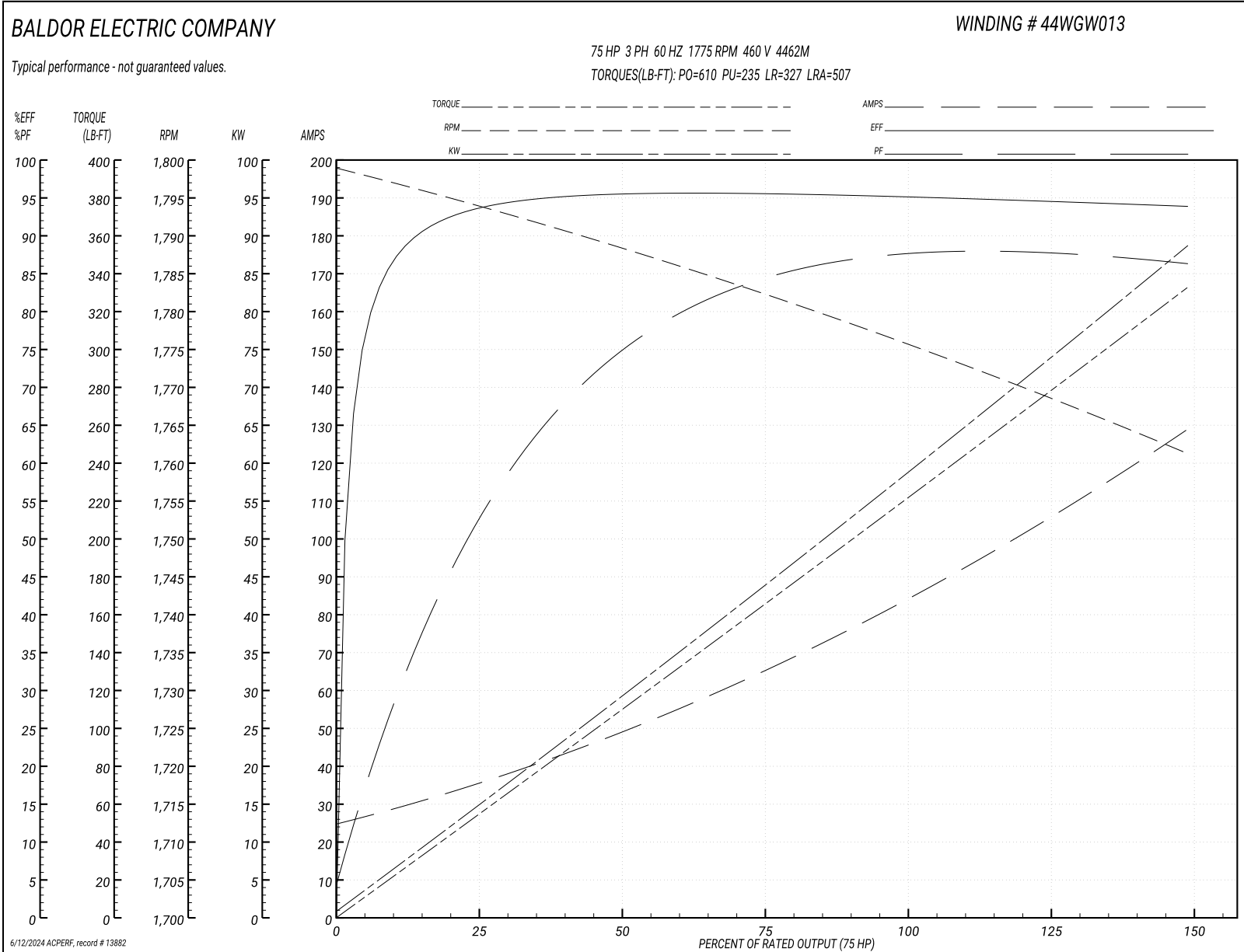
Typical performance - not guaranteed values

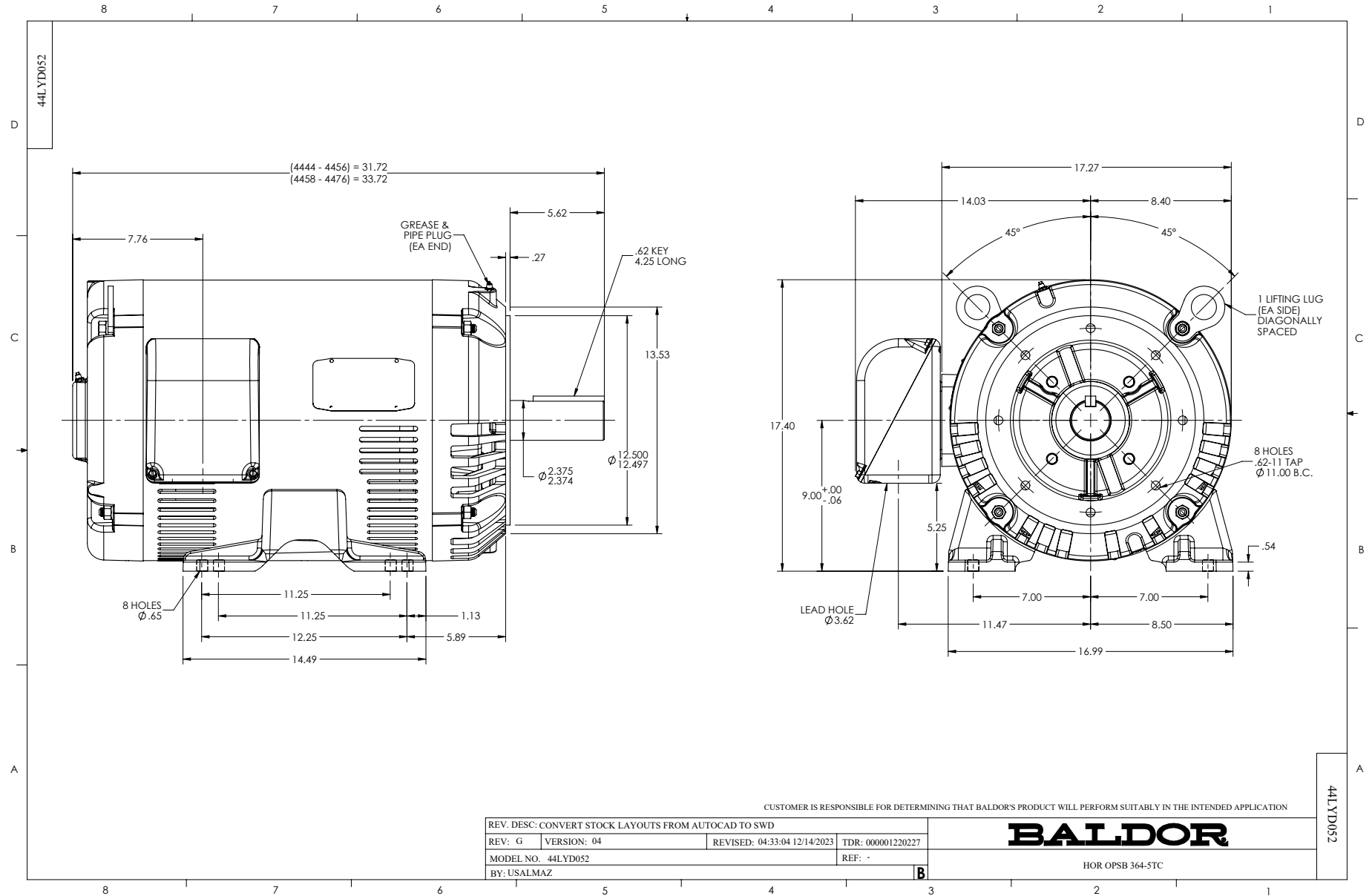
Winding: 44WGW013-R001			Type: 4462M	Enclosure: OPEN	
Nameplate Data			460 V, 60 Hz: High Voltage Connection		
Rated Output (HP)	75		Full Load Torque	222 LB-FT	
Volts	230/460		Start Configuration	direct on line	
Full Load Amps	17/85		Breakdown Torque	610 LB-FT	
R.P.M.	1775		Pull-up Torque	235 LB-FT	
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. @ 25°C	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-FT ²

Load Characteristics 460 V, 60 Hz, 75 HP

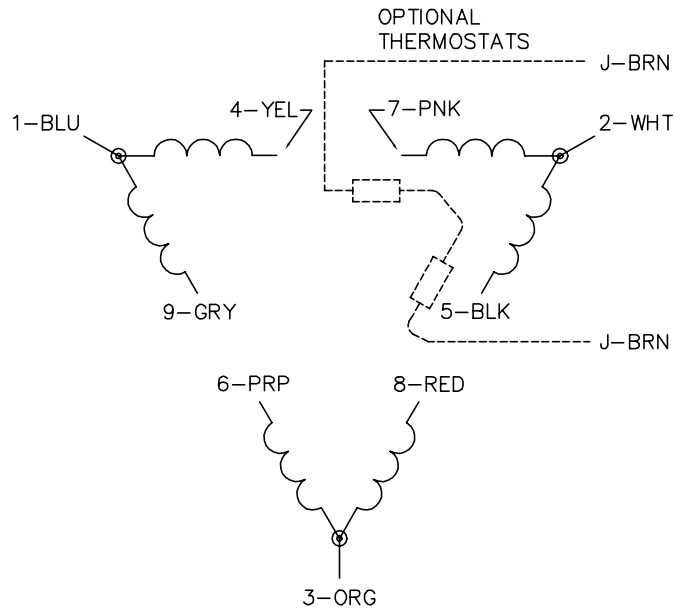
% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	56	77	84	86	87	87	87
Efficiency	93.6	95.6	95.4	95.3	94.6	93.9	94.9
Speed	1794	1788	1782	1776	1769	1761	1772
Line amperes	33.9	48	66.1	85.4	106	128	97.76

Performance Graph at 460V, 60Hz, 75.0HP Typical performance - Not guaranteed values

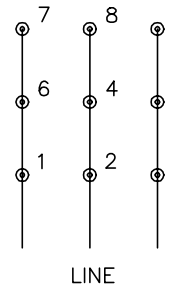




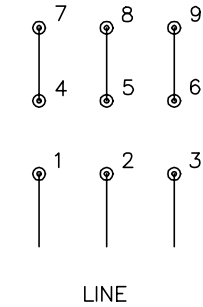
CD0180



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		
REV. LTR: D	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\148	REVISED: 10:25:29 02/19/2019	BY: ENBRIRO
MTL: -	© □	

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3PH, DV, 9 LEADS, DELTA CONNECTION

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