

**BALDOR • RELIANCE**

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# Customer information packet

## CEM2551T

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

## Specifications

Enclosure	OPSB
Frame	365TC
Frame Material	Steel
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	75.000 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	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	170.000 A @ 230.0 V 85.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.0 %
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	85.0 a

## Part detail

Revision	U
Type	AC
Mech. spec.	44D052
Base	
Status	PRD/A
Elec. spec.	44WGW013
Layout	44LYD052
Eff. date	11-19-2024
CD Diagram	CD0180
Poles	04
Leads	9#6
Proprietary	False
Created date	08-03-2010

<b>Insulation Class</b>	F
<b>Inverter Code</b>	Inverter Ready
<b>KVA Code</b>	F
<b>Lifting Lugs</b>	Standard Lifting Lugs
<b>Locked Bearing Indicator</b>	Locked Bearing
<b>Motor Lead Exit</b>	Ko Box
<b>Motor Lead Quantity/Wire Size</b>	9 @ 6 AWG
<b>Motor Lead Termination</b>	Flying Leads
<b>Motor Standards</b>	NEMA
<b>Motor Type</b>	4462M
<b>Mounting Arrangement</b>	F1
<b>Number of Poles</b>	4
<b>Overall Length</b>	33.72 IN
<b>Power Factor</b>	85
<b>Product Family</b>	General Purpose
<b>Pulley End Bearing Type</b>	Ball
<b>Pulley Face Code</b>	C-Face
<b>Pulley Shaft Indicator</b>	Standard
<b>Rodent Screen</b>	None
<b>Service Factor</b>	1.15
<b>Shaft Diameter</b>	2.375 IN
<b>Shaft Extension Location</b>	Pulley End
<b>Shaft Ground Indicator</b>	No Shaft Grounding
<b>Shaft Rotation</b>	Reversible
<b>Shaft Slinger Indicator</b>	No Slinger
<b>Speed</b>	1775 rpm
<b>Speed Code</b>	Single Speed
<b>Starting Method</b>	Direct on line
<b>Thermal Device - Bearing</b>	None
<b>Thermal Device - Winding</b>	None
<b>Vibration Sensor Indicator</b>	No Vibration Sensor
<b>Winding Thermal 1</b>	None
<b>Winding Thermal 2</b>	None

**Nameplate**

**NP2138LUA**

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

**AC Induction Motor Performance Data**

Record # 13882

Typical performance - not guaranteed values

Winding: 44WGW013-R001		Type: 4462M	Enclosure: OPEN
<b>Nameplate Data</b>		<b>460 V, 60 Hz: High Voltage Connection</b>	
Rated Output (HP)	75	Full Load Torque	222 LB-FT
Volts	230/460	Start Configuration	direct on line
Full Load Amps	170/85	Breakdown Torque	610 LB-FT
R.P.M.	1775	Pull-up Torque	235 LB-FT
Hz	60 Phase	Locked-rotor Torque	327 LB-FT
NEMA Design Code	B KVA Code	Starting Current	507 A
Service Factor (S.F.)	1.15	No-load Current	26.2 A
NEMA Nom. Eff.	95 Power Factor	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 <sup>2</sup>

**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

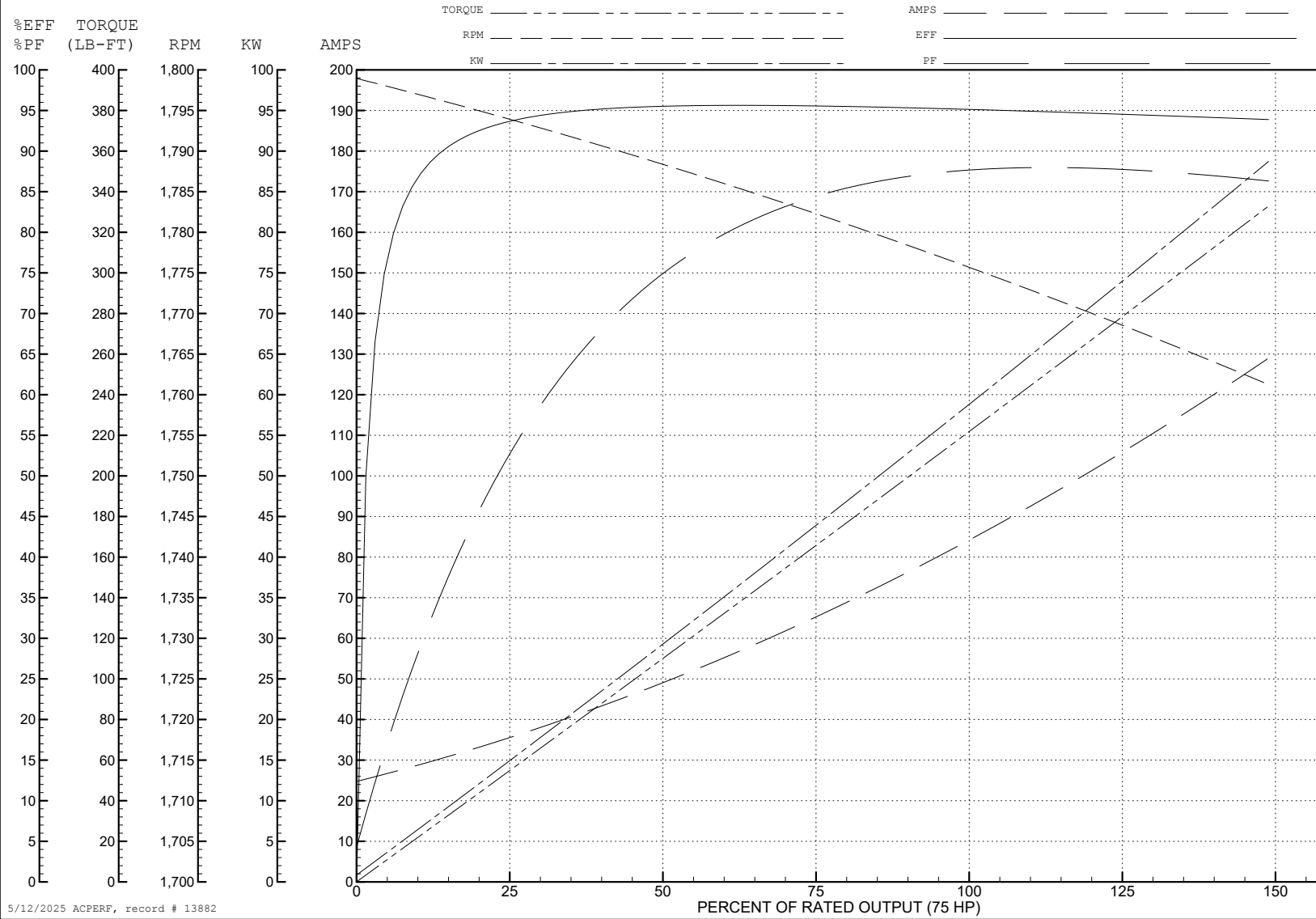
ABB Motors and Mechanical Inc.

WINDING # 44WGW013

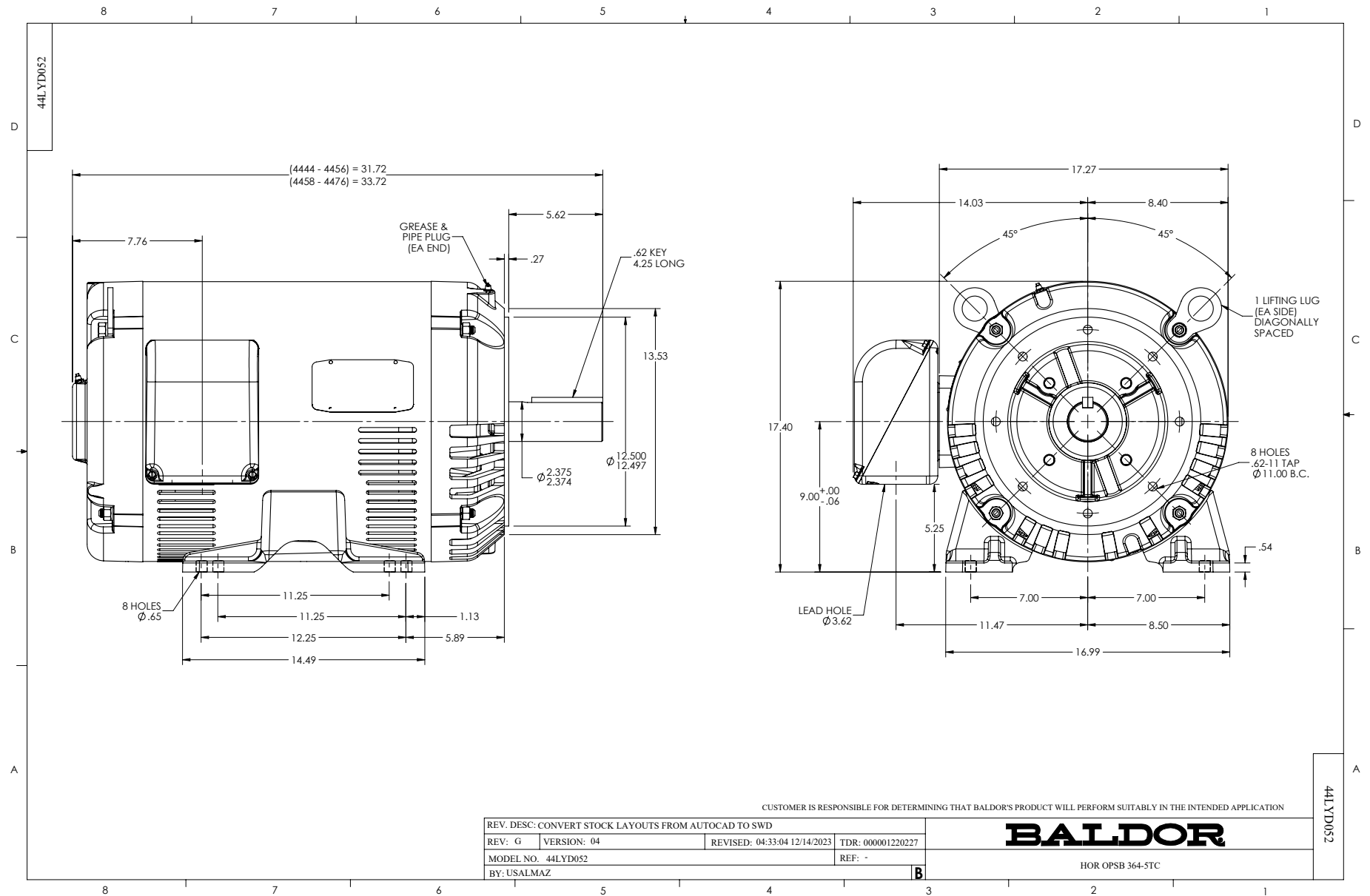
Typical performance - not guaranteed values.

75 HP 3 PH 60 HZ 1775 RPM 460 V 4462M

TORQUES (LB-FT): PO=610 PU=235 LR=327 LRA=507



5/12/2025 ACPERF, record # 13882



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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**BALDOR - RELIANCE®**

3PH, DV, 9 LEADS, DELTA CONNECTION

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