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# Customer information packet

## CEM4103T-5

25HP, 1770RPM, 3PH, 60HZ, 284TC, 1056M, TEFC, F

Class - None

Division - Not Applicable

## Specifications

Enclosure	TEFC
Frame	284TC
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	25.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	575.0 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	24.000 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.6 %
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	24.0 a

## Part detail

Revision	N
Type	AC
Mech. spec.	10C152
Base	
Status	PRD/A
Elec. spec.	10WGZ620
Layout	10LYC152
Eff. date	06-27-2024
CD Diagram	CD0006
Poles	04
Leads	3#10
Proprietary	False
Created date	01-25-2017

<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>	3 @ 10 AWG
<b>Motor Lead Termination</b>	Flying Leads
<b>Motor Standards</b>	NEMA
<b>Motor Type</b>	1056M
<b>Mounting Arrangement</b>	F1
<b>Number of Poles</b>	4
<b>Overall Length</b>	27.76 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>	1.875 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>	Shaft Slinger
<b>Speed</b>	1770 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**

**NP3443L**

<b>CAT.NO.</b>	CEM4103T-5	<b>CUST. P/N</b>				<b>ENCL</b>	<b>TEFC</b>
<b>SPEC.</b>	10C152Z620G1	<b>CC</b>	010A	<b>FRAME</b>	284TC	<b>SER.NO.</b>	
<b>HP</b>	25	<b>CLASS</b>		F	<b>HZ</b>	60	
<b>R.P.M.</b>	1770	<b>PH</b>	3	<b>DES</b>	B		
<b>VOLTS</b>	575	<b>CODE</b>		F	<b>ODE BRG</b>	6309	<b>DE BRG</b> 6311
<b>AMPS</b>	24						
<b>RATING</b>	40C AMB-CONT	<b>NEMA NOM. EFF.</b>			93.6	<b>GREASE</b>	POLYREX EM
<b>P.F.</b>	85	<b>SER.F.</b>	1.15	<b>VPWM INVERTER READY</b>			
	SFA 27						
<b>HTR-VOLTS</b>		<b>HTR-AMPS</b>		<b>HTR-WATTS</b>			

**AC Induction Motor Performance Data**

Record # 62101

Typical performance - not guaranteed values

Winding: 10WGZ620-R002		Type: 1056M	Enclosure: TEFC	
<b>Nameplate Data</b>			<b>575 V, 60 Hz: Single Voltage Motor</b>	
Rated Output (HP)	25	Full Load Torque	74.36 LB-FT	
Volts	575	Start Configuration	direct on line	
Full Load Amps	24	Breakdown Torque	196 LB-FT	
R.P.M.	1770	Pull-up Torque	90.75 LB-FT	
Hz	60 Phase	3	Locked-rotor Torque	114 LB-FT
NEMA Design Code	B KVA Code	F	Starting Current	137 A
Service Factor (S.F.)	1.15	No-load Current	8.24 A	
NEMA Nom. Eff.	93.6 Power Factor	85	Line-line Res. @ 25°C	0.463 Ω
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	54°C	
S.F. Amps		Temp. Rise @ S.F. Load	67°C	
		Locked-rotor Power Factor	30.4	
		Rotor inertia	4.46 LB-FT <sup>2</sup>	

**Load Characteristics 575 V, 60 Hz, 25 HP**

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	51	73	82	85	86	86	86
Efficiency	91	93.8	94.1	93.7	92.8	92.1	93.1
Speed	1793	1785	1779	1771	1762	1751	1766
Line amperes	9.93	13.55	18.28	23.59	29.19	35.78	27

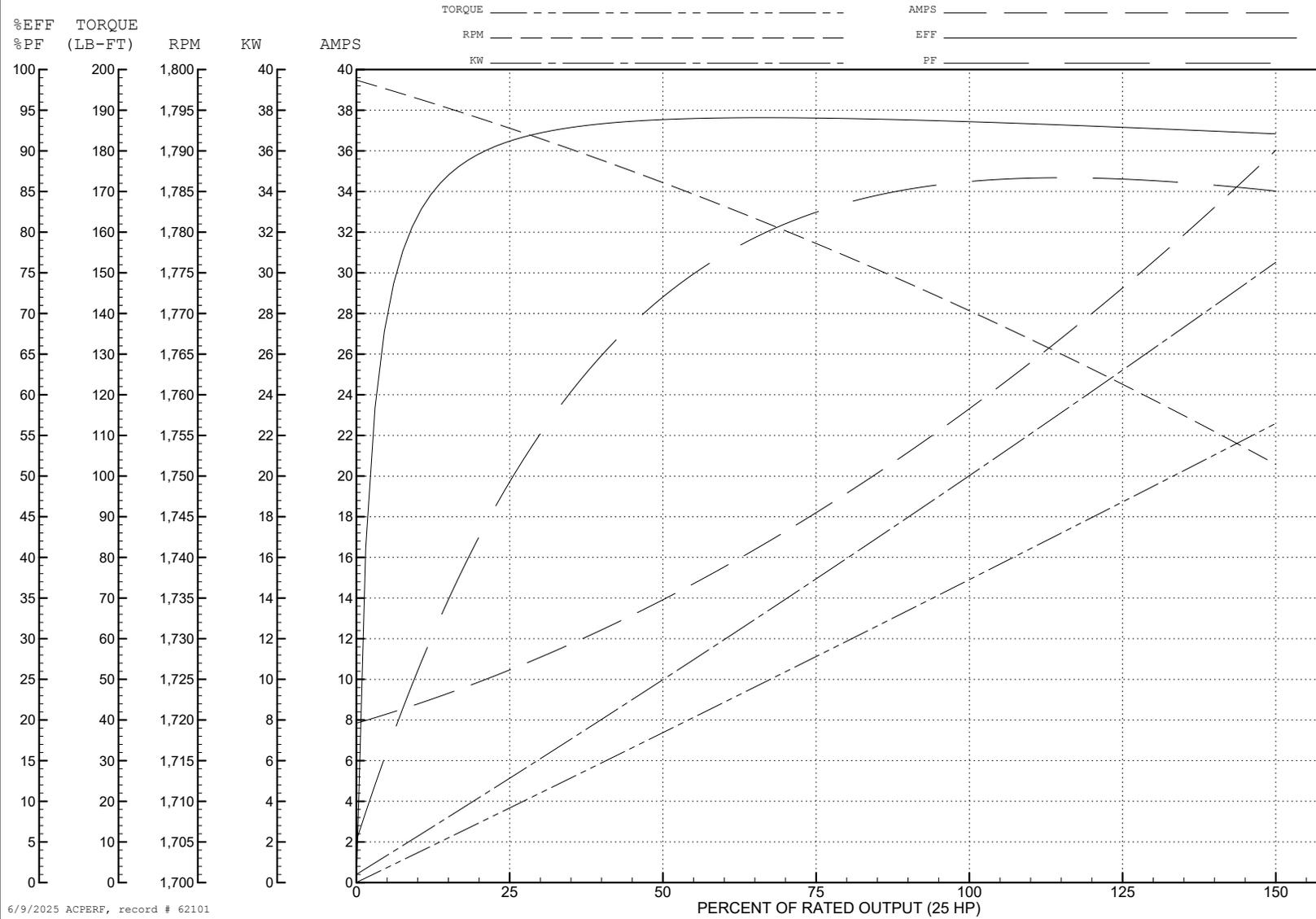
ABB Motors and Mechanical Inc.

WINDING # 10WGZ620

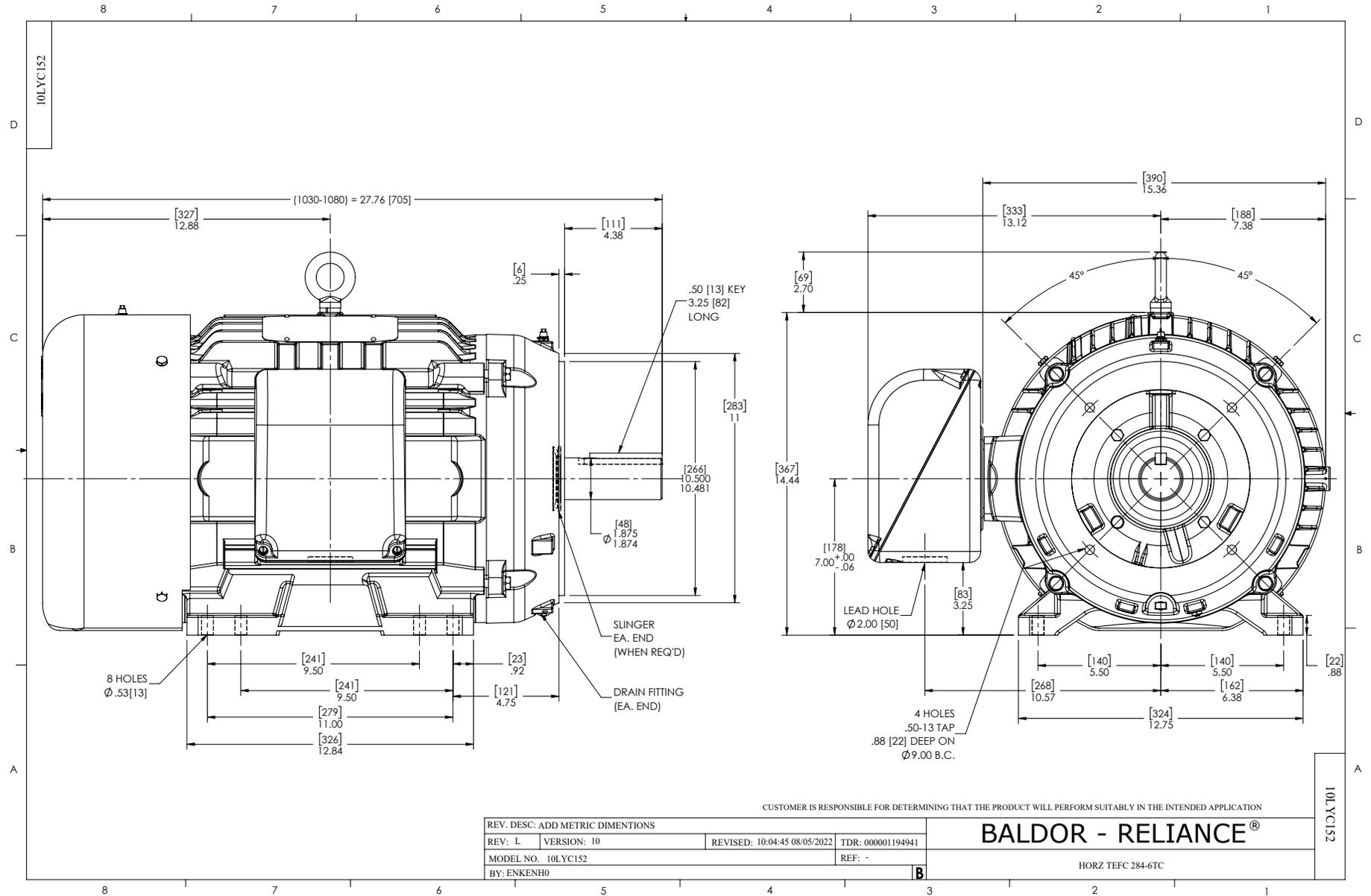
Typical performance - not guaranteed values.

25 HP 3 PH 60 HZ 1770 RPM 575 V 1056M

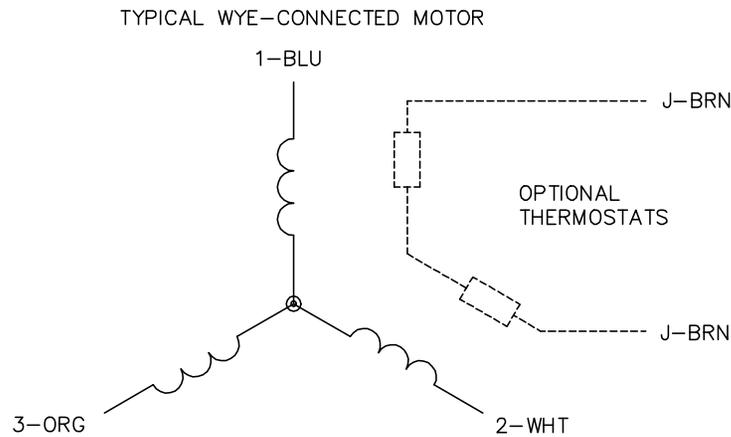
TORQUES (LB-FT): PO=196 PU=90.75 LR=114 LRA=137



6/9/2025 ACPERF, record # 62101



CD0006



NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

REV. DESC: ADD CLASS CONN00000007		
REV. LTR: E	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\141	REVISED: 10:24:49 02/19/2019	BY: ENBRIRO
MTL: -	© □	

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3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

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