

**BALDOR • RELIANCE**

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# Customer information packet

## EHM4103T

25HP, 1780RPM, 3PH, 60HZ, 284T, 1056M, TEFC, F1

Class - None

Division - Not Applicable

## Specifications

Enclosure	TEFC
Frame	284T
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	460.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	CSA CSA EEV 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	60.000 A @ 230.0 V 64.000 A @ 208.0 V 30.000 A @ 460.0 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

## Part detail

Revision	X
Type	AC
Mech. spec.	10H756
Base	
Status	PRD/A
Elec. spec.	10WGX562
Layout	10LYH756
Eff. date	07-10-2024
CD Diagram	CD0005
Poles	04
Leads	9#10
Proprietary	False
Created date	12-12-2011

Heater Indicator	No Heater
High Voltage Full Load Amps	30.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1056M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	27.76 IN
Power Factor	82
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	Mounting Provisions Only
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1780 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	NONE (OLD)
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None

**Winding Thermal 2**

**None**

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**Nameplate**

**NP2138L**

<b>CAT.NO.</b>	EHM4103T	<b>P/N</b>		<b>ENCLOSURE</b>	TEFC
<b>SPEC.</b>	10H756X562G1	<b>CC</b>	010A	<b>FRAME</b>	284T
<b>HP</b>	25	<b>CLASS</b>	F	<b>HZ</b>	60
<b>RPM</b>	1780	<b>PH</b>	3	<b>DES</b>	B
<b>VOLT</b>	230/460	<b>KVA-CODE</b>	G	<b>ODE BRG</b>	6309
<b>AMP</b>	60/30	<b>DE BRG</b>	6311		
<b>RATING</b>	40C AMB-CONT	<b>GREASE</b>	POLYREX EM		
<b>NEMA-NOM-EFF</b>	93.6	<b>PF</b>	82	<b>SER.F.</b>	1.15
<b>HTR-VOLTS</b>		<b>HTR-AMPS</b>			

**AC Induction Motor Performance Data**

Record # 2743

Typical performance - not guaranteed values

<b>Winding: 10WGX562-R001</b>		<b>Type: 1056M</b>		<b>Enclosure: TEFC</b>	
<b>Nameplate Data</b>			<b>460 V, 60 Hz: High Voltage Connection</b>		
<b>Rated Output (HP)</b>	25	<b>Full Load Torque</b>	74 LB-FT		
<b>Volts</b>	230/460	<b>Start Configuration</b>	direct on line		
<b>Full Load Amps</b>	60/30	<b>Breakdown Torque</b>	226 LB-FT		
<b>R.P.M.</b>	1780	<b>Pull-up Torque</b>	101 LB-FT		
<b>Hz</b>	60 <b>Phase</b>	3	<b>Locked-rotor Torque</b>	137 LB-FT	
<b>NEMA Design Code</b>	<b>B KVA Code</b>	G	<b>Starting Current</b>	188 A	
<b>Service Factor (S.F.)</b>	1.15	<b>No-load Current</b>	11 A		
<b>NEMA Nom. Eff.</b>	93.6 <b>Power Factor</b>	82	<b>Line-line Res. @ 25°C</b>	0.267 Ω	
<b>Rating - Duty</b>	40C AMB-CONT		<b>Temp. Rise @ Rated Load</b>	51°C	
<b>S.F. Amps</b>			<b>Temp. Rise @ S.F. Load</b>	62°C	
			<b>Locked-rotor Power Factor</b>	32	
			<b>Rotor inertia</b>	4.44 LB-FT <sup>2</sup>	

**Load Characteristics 460 V, 60 Hz, 25 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>	45	68	78	83	84	84	84
<b>Efficiency</b>	90.2	93.4	93.9	93.6	92.9	92	93.2
<b>Speed</b>	1793	1787	1781	1774	1766	1758	1769
<b>Line amperes</b>	14.6	18.7	24.2	30	37.3	44.8	34.38

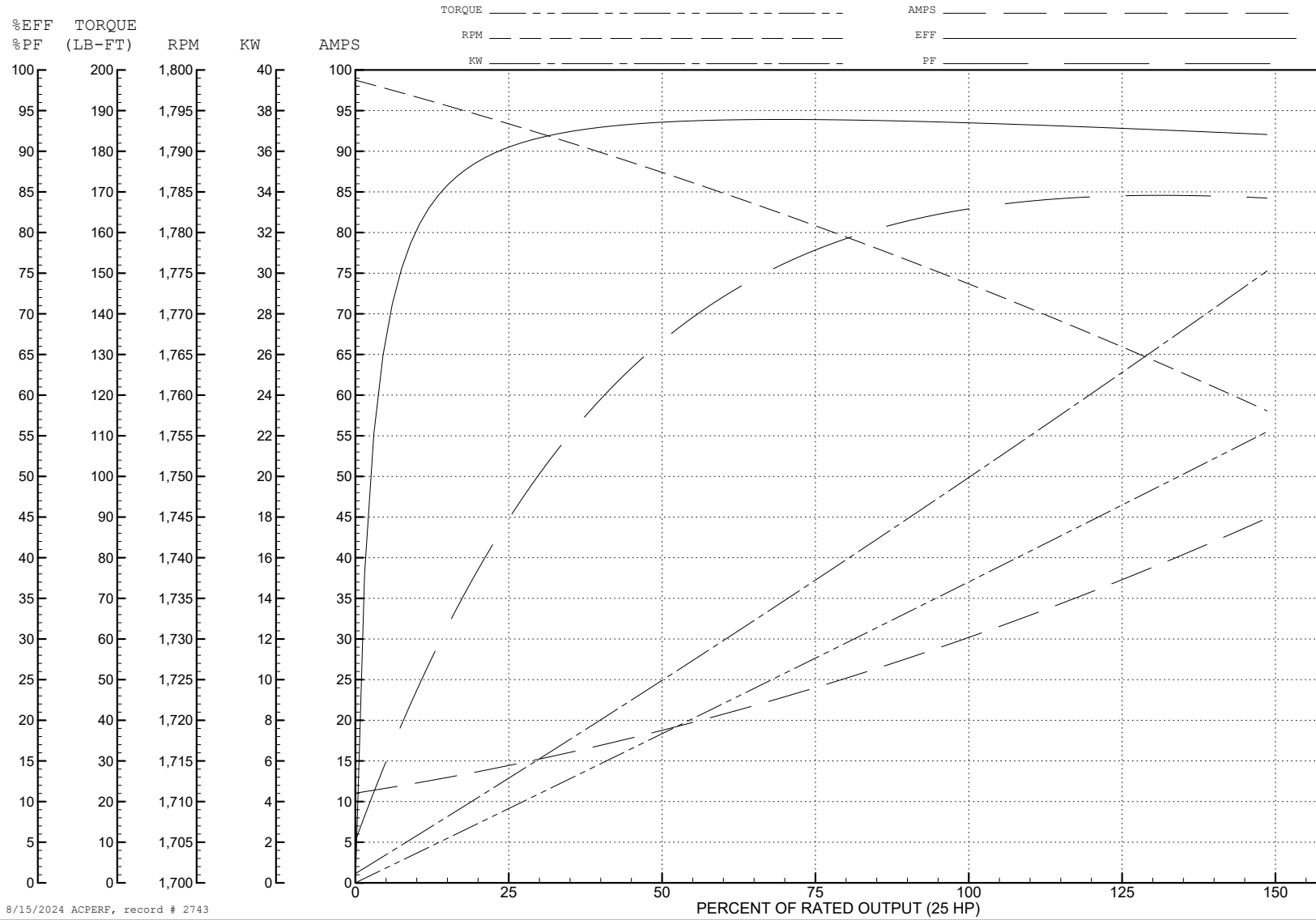
ABB Motors and Mechanical Inc.

WINDING # 10WGX562

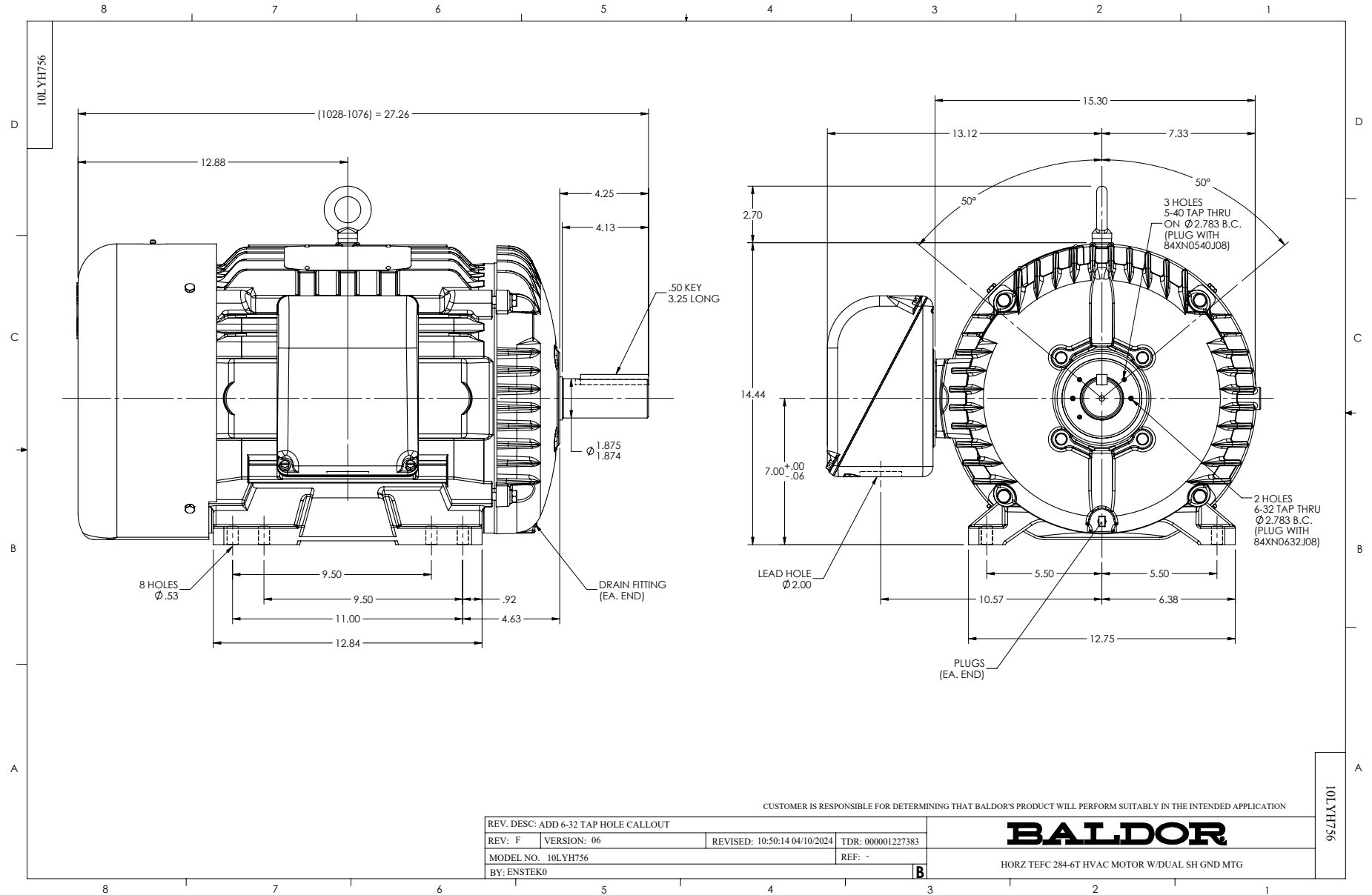
Typical performance - not guaranteed values.

25 HP 3 PH 60 HZ 1780 RPM 460 V 1056M

TORQUES (LB-FT): PO=226 PU=101 LR=137 LRA=188

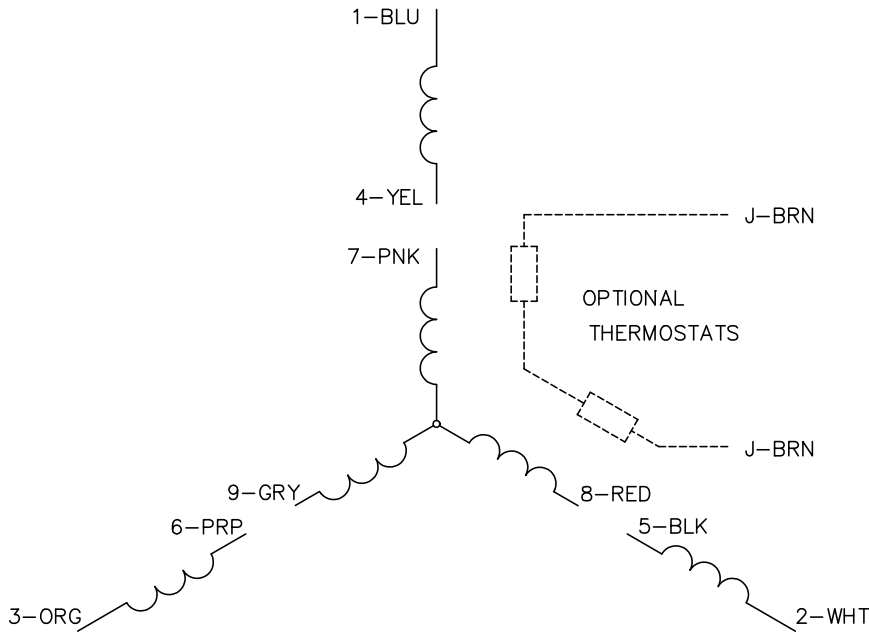


8/15/2024 ACPERF, record # 2743

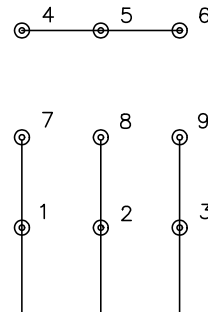




CD0005

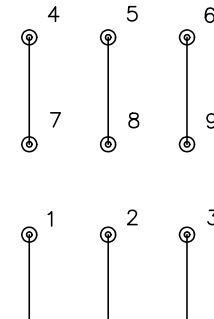


LOW VOLTAGE  
(2Y)



LINE

HIGH VOLTAGE  
(1Y)



LINE

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.

CD0005

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
S00000		FILE: AAA00005140	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS