

**BALDOR • RELIANCE**

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# Customer information packet

## EGDM3770T

7.5HP, 1770RPM, 3PH, 60HZ, 213TZ, 0738M, TEFC

Class - None

Division - Not Applicable

## Specifications

Enclosure	TEFC
Frame	213TZ
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	7.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	208.0 V @ 60 HZ 230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	UR CSA CSA EEV
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	9.500 A @ 460.0 V 19.800 A @ 208.0 V 19.000 A @ 230.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard

## Part detail

Revision	E
Type	AC
Mech. spec.	07N230
Base	
Status	PRD/A
Elec. spec.	07WGX790
Layout	07LYN230
Eff. date	10-27-2023
CD Diagram	CD0005
Poles	04
Leads	9#14 72" LONG Y
Proprietary	False
Created date	05-19-2015

Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	9.5 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0738M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	19.45 IN
Power Factor	81
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	1.375 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1770 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

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**Nameplate**

<b>NP3126L</b>									
<b>CAT.NO.</b>	EGDM3770T								
<b>SPEC.</b>	07N230X790G1								
<b>HP</b>	7.5								
<b>VOLTS</b>	208-230/460								
<b>AMP</b>	19.8-19/9.5								
<b>RPM</b>	1770								
<b>FRAME</b>	213TZ		<b>HZ</b>	60		<b>PH</b>	3		
<b>SER.F.</b>	1.15	<b>CODE</b>	J	<b>DES</b>	A	<b>CL</b>	F		
<b>NEMA-NOM-EFF</b>	91.7	<b>PF</b>	81						
<b>RATING</b>	40C AMB-CONT								
<b>CC</b>	010A		<b>USABLE AT 208V</b>				N/A		
<b>DE</b>	6307		<b>ODE</b>	6206					
<b>ENCL</b>	TEFC	<b>SN</b>							

**AC Induction Motor Performance Data**

Record # 35558

Typical performance - not guaranteed values

Winding: 07WGX790-R011		Type: 0738M	Enclosure: TEFC
<b>Nameplate Data</b>		<b>460 V, 60 Hz: High Voltage Connection</b>	
Rated Output (HP)	7.5	Full Load Torque	22.2 LB-FT
Volts	208-230/460	Start Configuration	direct on line
Full Load Amps	19.8-19/9.5	Breakdown Torque	70.9 LB-FT
R.P.M.	1770	Pull-up Torque	32.7 LB-FT
Hz	60 Phase	Locked-rotor Torque	43 LB-FT
NEMA Design Code	A KVA Code	Starting Current	70.8 A
Service Factor (S.F.)	1.15	No-load Current	4.3 A
NEMA Nom. Eff.	91.7 Power Factor	Line-line Res. @ 25°C	1.41 Ω
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	41°C
S.F. Amps		Temp. Rise @ S.F. Load	50°C
		Locked-rotor Power Factor	37.2
		Rotor inertia	0.934 LB-FT <sup>2</sup>

**Load Characteristics 460 V, 60 Hz, 7.5 HP**

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	42	64	75	80	83	84	82
Efficiency	87.5	91.6	92.5	91.8	91.1	90.1	91.1
Speed	1793	1786	1778	1770	1760	1750	1764
Line amperes	4.83	6.02	7.6	9.5	11.6	13.9	10.7

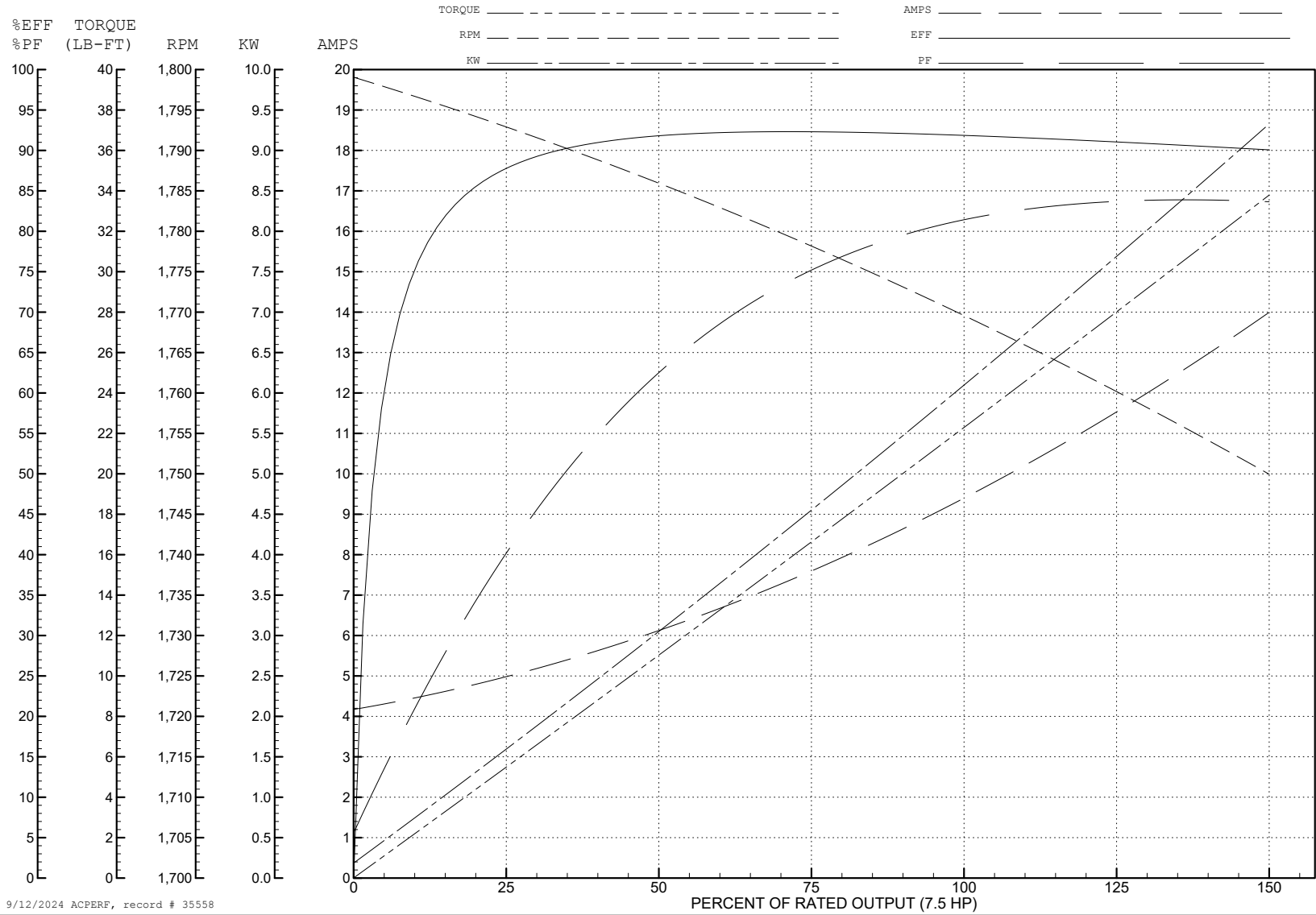
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WINDING # 07WGx790

7.5 HP 3 PH 60 HZ 1770 RPM 460 V 0738M

Typical performance - not guaranteed values.

TORQUES (LB-FT): PO=70.9 PU=32.7 LR=43 LRA=70.8



9/12/2024 ACPERF, record # 35558

**AC Induction Motor Performance Data**

Record # 40157

Typical performance - not guaranteed values

Winding: 07WGX790-R011		Type: 0738M	Enclosure: TEFC
<b>Nameplate Data</b>		<b>208 V, 60 Hz: Low Voltage Connection</b>	
Rated Output (HP)	7.5	Full Load Torque	22.2 LB-FT
Volts	208-230/460	Start Configuration	direct on line
Full Load Amps	19.8-19/9.5	Breakdown Torque	57.4 LB-FT
R.P.M.	1770	Pull-up Torque	26.1 LB-FT
Hz	60 Phase	Locked-rotor Torque	34.3 LB-FT
NEMA Design Code	A KVA Code	Starting Current	126 A
Service Factor (S.F.)	1.15	No-load Current	7.24 A
NEMA Nom. Eff.	91.7 Power Factor	Line-line Res. @ 25°C	0.352 Ω
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	43°C
S.F. Amps		Temp. Rise @ S.F. Load	55°C
		Locked-rotor Power Factor	36.8
		Rotor inertia	0.934 LB-FT <sup>2</sup>

**Load Characteristics 208 V, 60 Hz, 7.5 HP**

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	51	72	80	84	85	85	86
Efficiency	89.1	91.9	92.6	91.5	90.4	88.9	90.7
Speed	1792	1783	1774	1764	1751	1739	1756
Line amperes	8.66	11.7	15.6	20.1	25.2	30.7	22.9



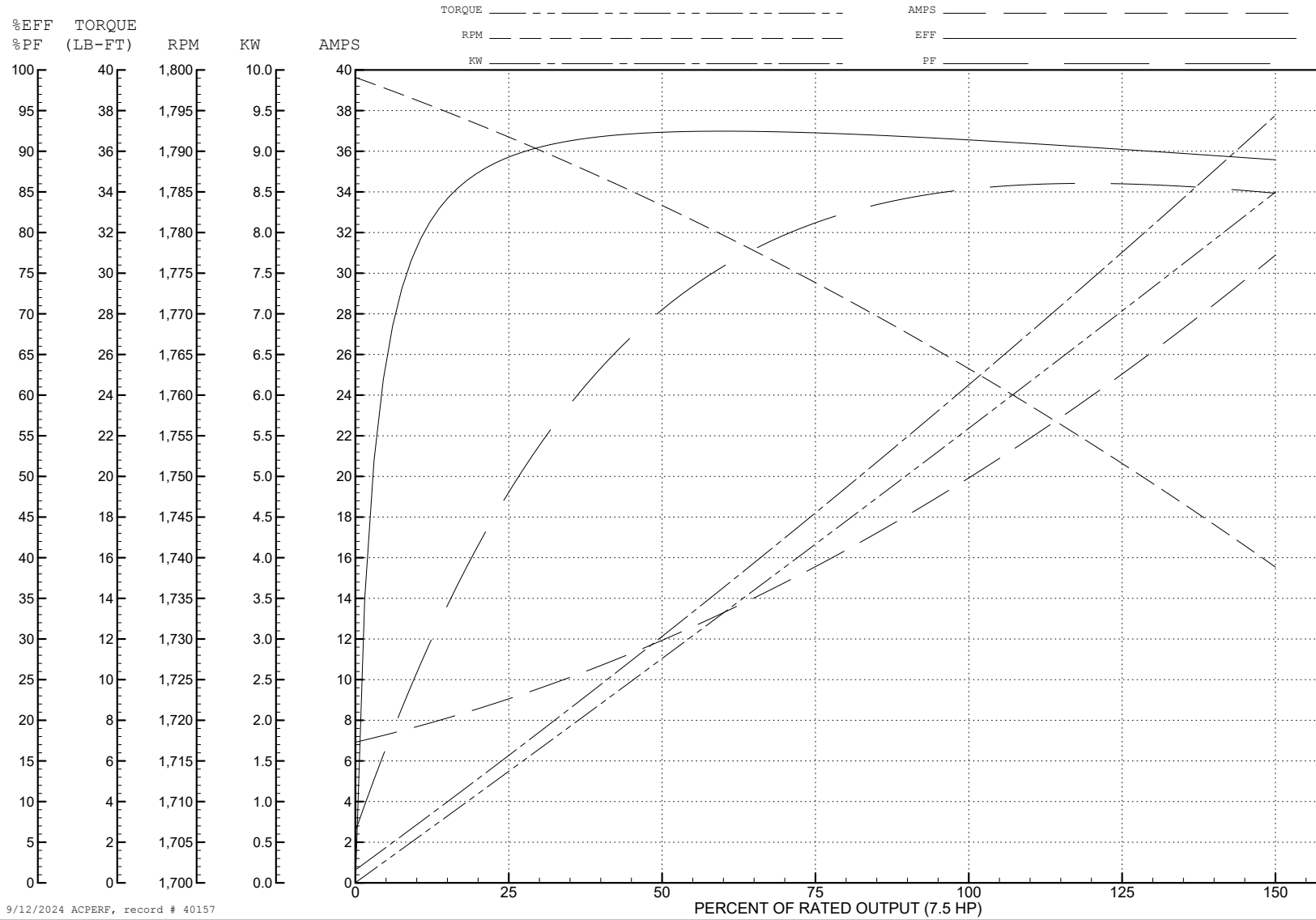
ABB Motors and Mechanical Inc.

WINDING # 07WGX790

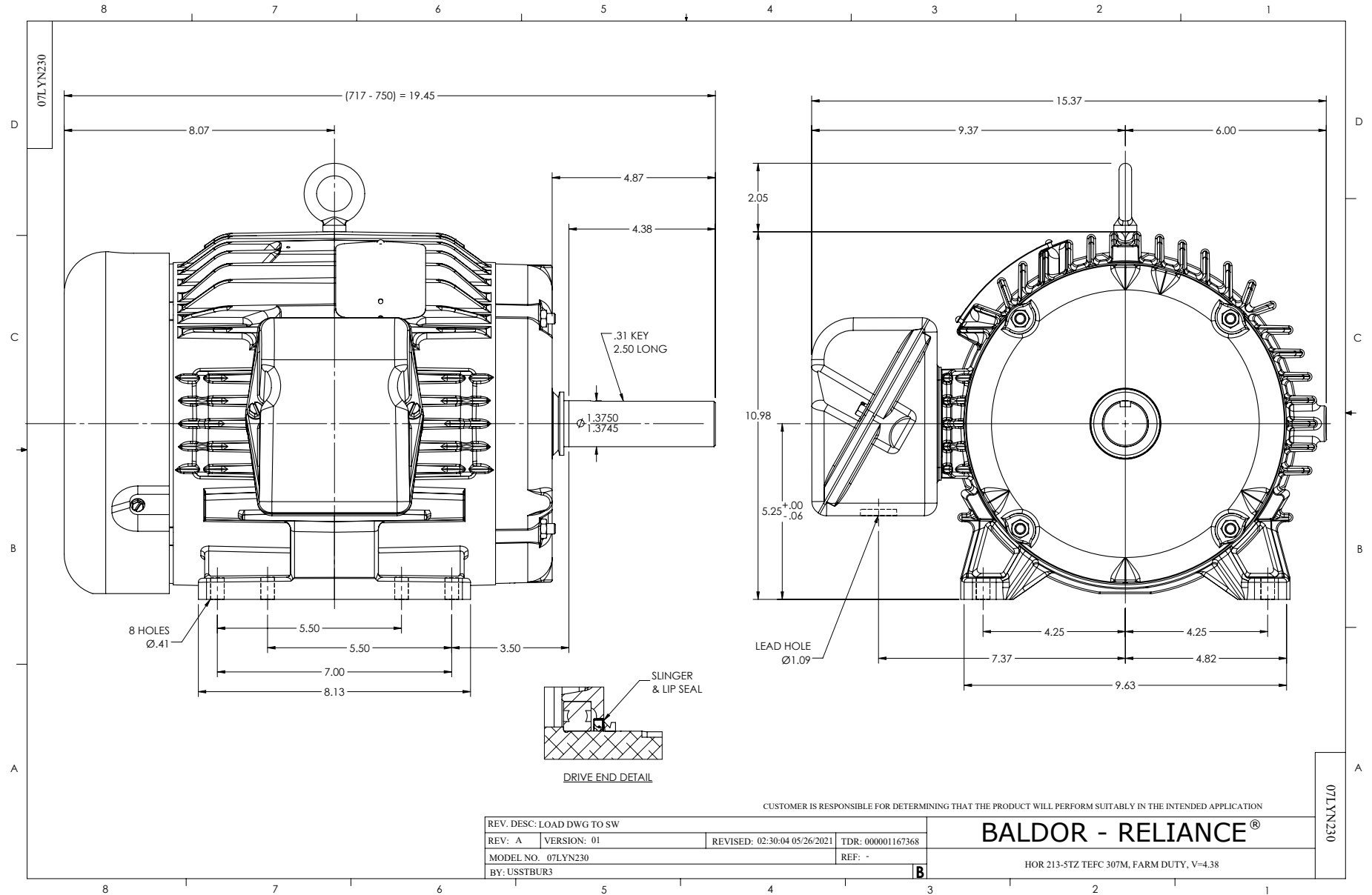
Typical performance - not guaranteed values.

7.5 HP 3 PH 60 HZ 1770 RPM 208 V 0738M

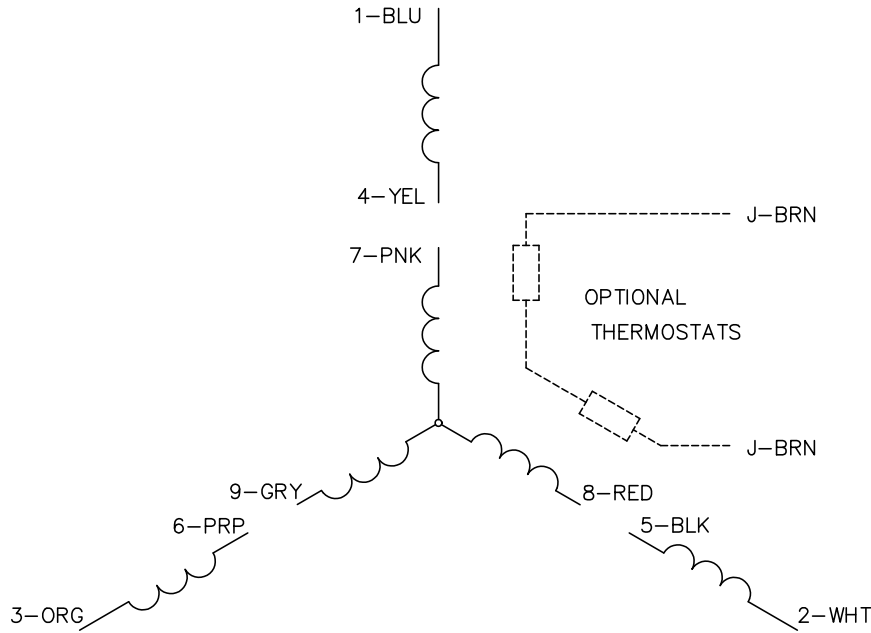
TORQUES (LB-FT): PO=57.4 PU=26.1 LR=34.3 LRA=126



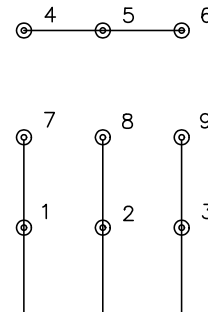
9/12/2024 ACPERF, record # 40157



CD0005

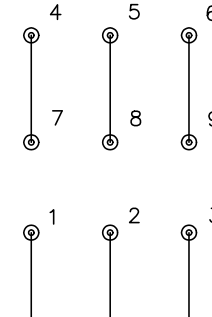


LOW VOLTAGE  
(2Y)



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