

**BALDOR • RELIANCE**

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# Customer information packet

## FPM2546T

60//50HP, 3520//2920RPM, 3PH, 60//50HZ, 326T

## Specifications

Enclosure	ODP
Frame	326TS
Frame Material	Steel
Frequency	50.00 Hz 60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	60.000 HP @ 60 HZ 50.000 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 190.0 V @ 50 HZ 460.0 V @ 60 HZ 380.0 V @ 50 HZ
Agency Approvals	CSA EEV UL UR CSA
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	69.000 A @ 380.0 V 68.000 A @ 460.0 V 138.000 A @ 190.0 V 136.000 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.0 %

## Part detail

Revision	M
Type	AC
Mech. spec.	40H07
Base	
Status	PRD/A
Elec. spec.	40WGX318
Layout	40LYH007
Eff. date	07-24-2023
CD Diagram	CD0104
Poles	02
Leads	12#8
Proprietary	False
Created date	09-16-2015

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	68.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	12 @ 8 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	4062M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	25.69 IN
Power Factor	89
Product Family	Fire Pump Motor
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	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	2920 rpm 3520 rpm
Speed Code	Single Speed

<b>Starting Method</b>	Wye Start - Delta Run
<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**

**NP3454L**

<b>CAT.NO.</b>	FPM2546T	<b>CUST P/N</b>		<b>I.P.</b>	23
<b>SPEC.</b>	40H007X318H2	<b>SER.NO.</b>		<b>FRAME</b>	326TS
<b>HZ</b>	60	<b>HP</b>	60	<b>RPM</b>	3520
				<b>HZ</b>	50
				<b>HP</b>	50
				<b>RPM</b>	2920
<b>VOLTS</b>	230/460	<b>CODE</b>	G	<b>VOLTS</b>	190/380
				<b>CODE</b>	F
<b>AMPS</b>	136/68	<b>DES</b>	B	<b>AMPS</b>	138/69
				<b>DES</b>	B
<b>EFF</b>	93	<b>SER.F.</b>	1.15	<b>PF</b>	89
				<b>EFF</b>	91.7
				<b>SER.F.</b>	1.15
				<b>PF</b>	89
<b>RATING</b>	40C AMB-CONT	<b>DE BRG</b>	6312	<b>GREASE</b>	POLYREX EM
<b>BLANK</b>		<b>ODE BRG</b>	6309	<b>MTR. WT.</b>	390
		<b>CLASS</b>	F	<b>PH</b>	3
		<b>ENCL</b>	ODP	<b>CC</b>	010A
<b>HTR-VOLTS</b>		<b>HTR-AMPS</b>		<b>HTR-WATTS</b>	

**AC Induction Motor Performance Data**

Record # 55052

Typical performance - not guaranteed values

<b>Winding: 40WGX318-R001</b>		<b>Type: 4062M</b>		<b>Enclosure: OPSB</b>	
<b>Nameplate Data</b>			<b>460 V, 60 Hz: High Voltage Connection</b>		
<b>Rated Output (HP)</b>	60//50		<b>Full Load Torque</b>	89.6 LB-FT	
<b>Volts</b>	230/460//190/380		<b>Start Configuration</b>	direct on line	
<b>Full Load Amps</b>	136/68//138/69		<b>Breakdown Torque</b>	205 LB-FT	
<b>R.P.M.</b>	3520//2920		<b>Pull-up Torque</b>	115 LB-FT	
<b>Hz</b>	60//50	<b>Phase</b>	3	<b>Locked-rotor Torque</b>	150 LB-FT
<b>NEMA Design Code</b>	<b>B KVA Code</b>		G	<b>Starting Current</b>	431 A
<b>Service Factor (S.F.)</b>			1.15	<b>No-load Current</b>	16.9 A
<b>NEMA Nom. Eff.</b>	93	<b>Power Factor</b>	89	<b>Line-line Res. @ 25°C</b>	0.11624 Ω
<b>Rating - Duty</b>			40C AMB-CONT	<b>Temp. Rise @ Rated Load</b>	47°C
<b>S.F. Amps</b>				<b>Temp. Rise @ S.F. Load</b>	60°C
				<b>Locked-rotor Power Factor</b>	22.2

**Load Characteristics 460 V, 60 Hz, 60 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>	65	83	88	89	90	89	90
<b>Efficiency</b>	92.1	94.1	93.9	93.1	92	90.6	92.4
<b>Speed</b>	3581.9	3565	3545.4	3523.9	3501.1	3473.4	3510
<b>Line amperes</b>	23.8	36.1	50.8	67.6	85.1	104	78.1

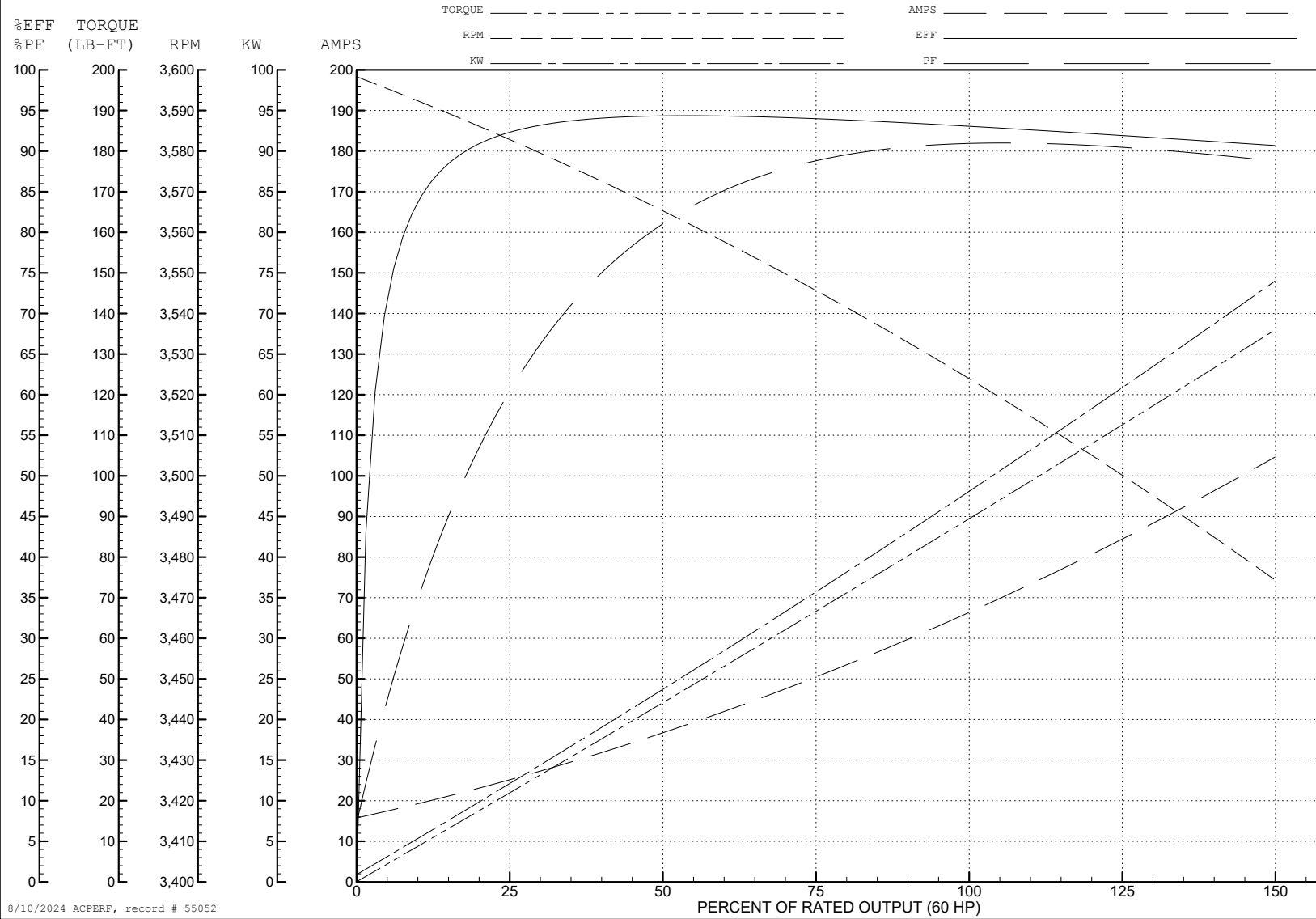
ABB Motors and Mechanical Inc.

WINDING # 40WGX318

60 HP 3 PH 60 HZ 3523.9 RPM 460 V 4062M

Typical performance - not guaranteed values.

TORQUES (LB-FT): PO=205 PU=115 LR=150 LRA=431



8/10/2024 ACPERF, record # 55052

**AC Induction Motor Performance Data**

Record # 55053

Typical performance - not guaranteed values

Winding: 40WGX318-R001		Type: 4062M	Enclosure: OPSB			
<b>Nameplate Data</b>			<b>380 V, 50 Hz: High Voltage Connection</b>			
Rated Output (HP)	60//50		Full Load Torque	89.9 LB-FT		
Volts	230/460//190/380		Start Configuration	direct on line		
Full Load Amps	136/68//138/69		Breakdown Torque	198 LB-FT		
R.P.M.	3520//2920		Pull-up Torque	122 LB-FT		
Hz	60//50	Phase	3	Locked-rotor Torque	159 LB-FT	
NEMA Design Code	B		KVA Code	G	Starting Current	422 A
Service Factor (S.F.)	1.15		No-load Current	16.5 A		
NEMA Nom. Eff.	93	Power Factor	89		Line-line Res. @ 25°C	0.115 Ω
Rating - Duty	40C		AMB-CONT	Temp. Rise @ Rated Load	48°C	
S.F. Amps				Temp. Rise @ S.F. Load	61°C	
				Locked-rotor Power Factor	24.9	
				Rotor inertia	2.66 LB-FT <sup>2</sup>	

**Load Characteristics 380 V, 50 Hz, 50 HP**

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	67	84	89	90	90	89	90
Efficiency	91	93.3	93.1	92.2	91.5	89.2	91.8
Speed	2982	2965	2946	2925	2902	2875	2911
Line amperes	23.7	36.3	51.4	68.6	86.8	107	79.5



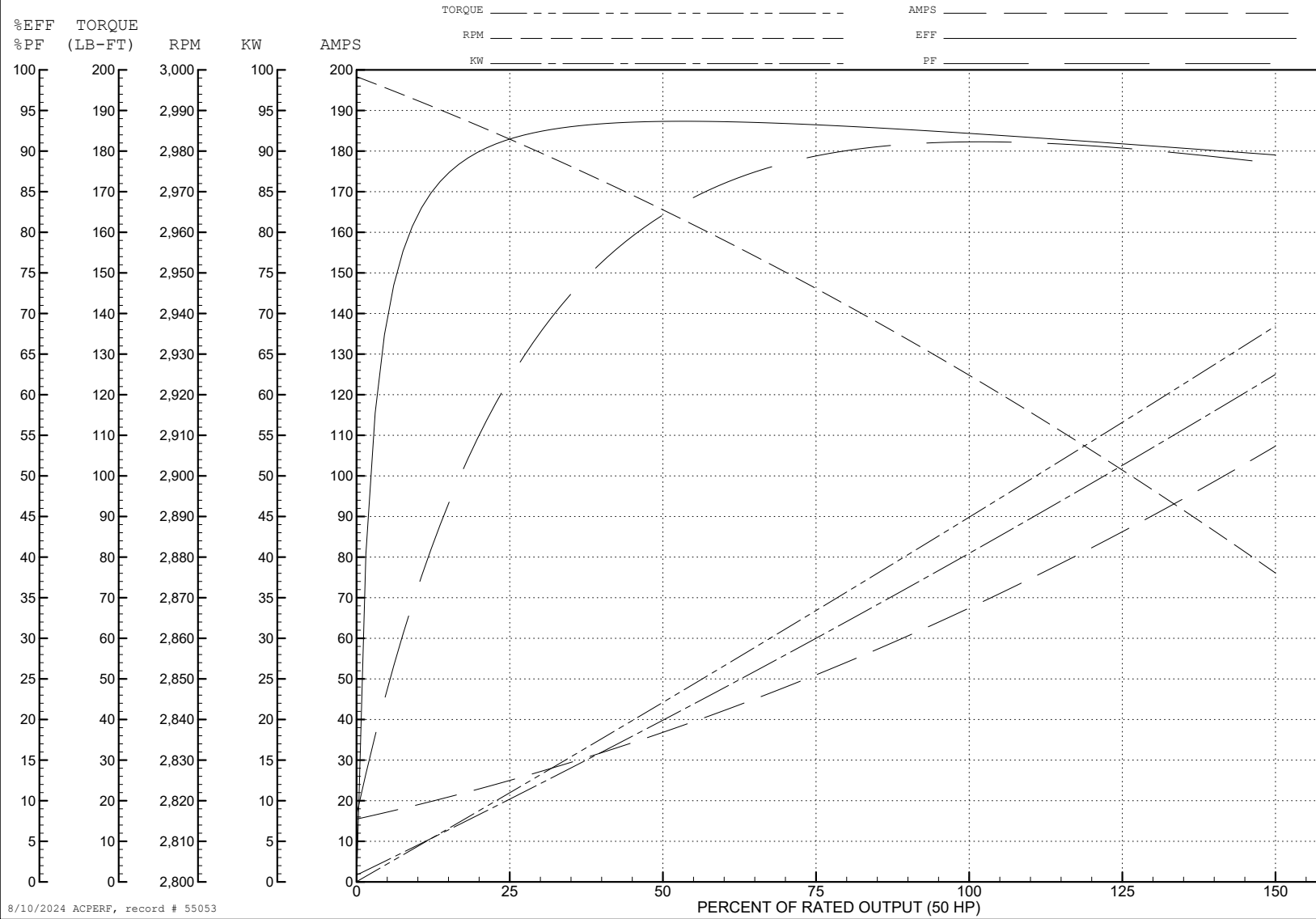
ABB Motors and Mechanical Inc.

WINDING # 40WGx318

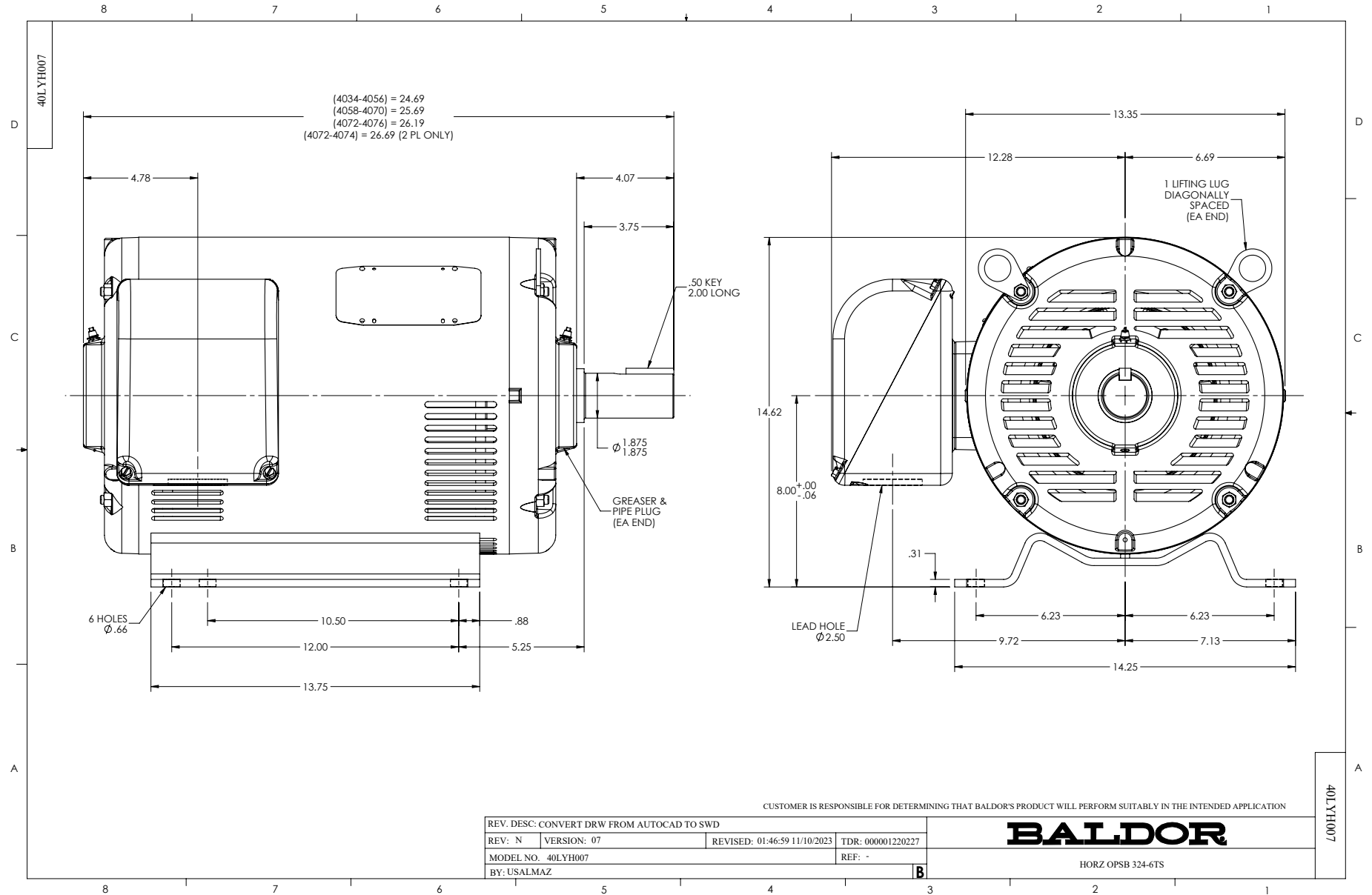
50 HP 3 PH 50 HZ 2925 RPM 380 V 4062M

Typical performance - not guaranteed values.

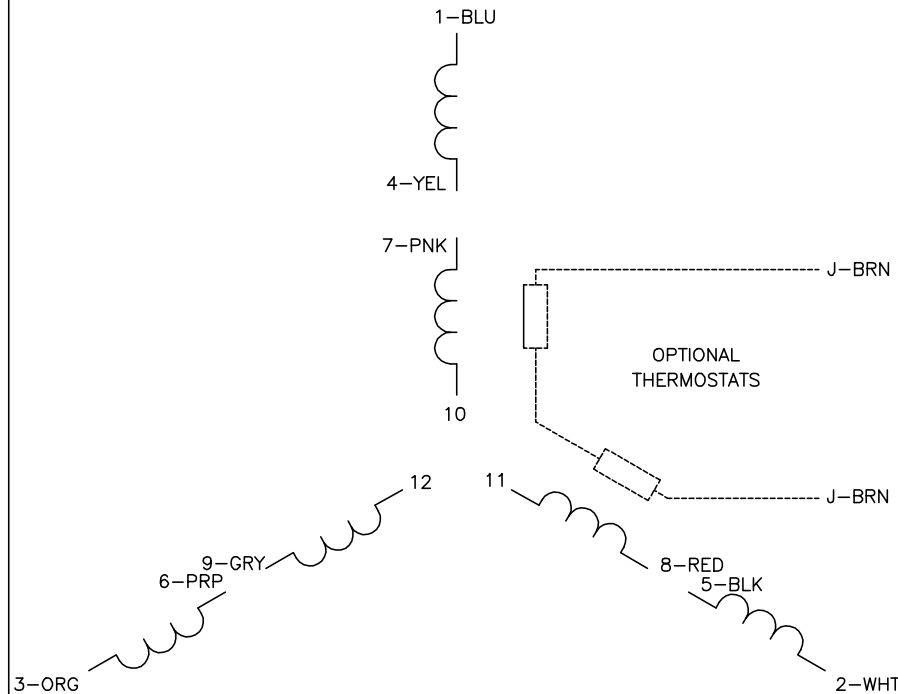
TORQUES (LB-FT): PO=198 PU=122 LR=159 LRA=422



8/10/2024 ACPERF, record # 55053

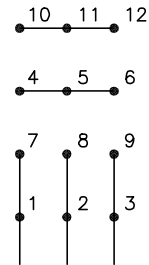


CD0104



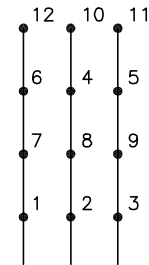
**LOW VOLTAGE**

START (2Y)



LINE

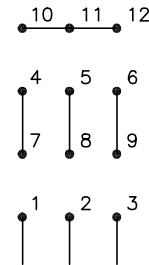
RUN (2D)



LINE

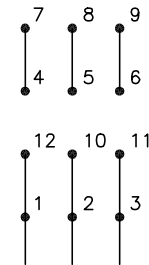
**HIGH VOLTAGE**

START (1Y)



LINE

RUN (1D)



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.

CD0104

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FILE: \AAA\00008\377	REVISED: 09:02:55 02/19/2019	BY: ENBRIRO
MTL: -	© □	

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3PH, DV, 12 LEADS, Y START/D RUN

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