

BALDOR • RELIANCE

Customer information packet

FPM2535TS

30//25HP, 1770//1470RPM, 3PH, 60//50HZ, 286T

Specifications

Enclosure	ODP
Frame	286TS
Frame Material	Steel
Frequency	50.00 Hz 60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	30.000 HP @ 60 HZ 25.000 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	1800 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	72.000 A @ 230.0 V 72.000 A @ 190.0 V 36.000 A @ 460.0 V 36.000 A @ 380.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	92.4 %

Part detail

Revision	K
Type	AC
Mech. spec.	40G49
Base	
Status	PRD/A
Elec. spec.	40WGX324
Layout	40LYG049
Eff. date	07-24-2023
CD Diagram	CD0104
Poles	04
Leads	12#10
Proprietary	False
Created date	11-30-2015

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	36.0 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 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	4052M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	23.69 IN
Power Factor	84
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	1.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1470 rpm 1770 rpm
Speed Code	Single Speed

Starting Method	Wye Start - Delta Run
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP3454L

CAT.NO.	FPM2535TS	CUST P/N		I.P.	23
SPEC.	40G049X324H2	SER.NO.		FRAME	286TS
HZ	60	HP	30	RPM	1770
				HZ	50
				HP	25
				RPM	1470
VOLTS	230/460	CODE	G	VOLTS	190/380
				CODE	F
AMPS	72/36	DES	B	AMPS	72/36
				DES	B
EFF	92.4	SER.F.	1.15	PF	84
				EFF	92.4
				SER.F.	1.15
				PF	84
RATING	40C AMB-CONT	DE BRG	6311	GREASE	POLYREX EM
BLANK		ODE BRG	6309	MTR. WT.	334
		CLASS	F	PH	3
		ENCL	ODP	CC	010A
HTR-VOLTS		HTR-AMPS		HTR-WATTS	

AC Induction Motor Performance Data

Record # 54887

Typical performance - not guaranteed values

Winding: 40WGX324-R001		Type: 4052M		Enclosure: OPEN	
Nameplate Data			460 V, 60 Hz: High Voltage Connection		
Rated Output (HP)	30//25		Full Load Torque	89.5 LB-FT	
Volts	230/460//190/380		Start Configuration	direct on line	
Full Load Amps	72/36		Breakdown Torque	258 LB-FT	
R.P.M.	1770//1470		Pull-up Torque	113 LB-FT	
Hz	60//50	Phase	3	Locked-rotor Torque	143 LB-FT
NEMA Design Code	B KVA Code		G	Starting Current	211 A
Service Factor (S.F.)			1.15	No-load Current	13 A
NEMA Nom. Eff.	92.4	Power Factor	84	Line-line Res. @ 25°C	0.26526 Ω
Rating - Duty			40C AMB-CONT	Temp. Rise @ Rated Load	32°C
S.F. Amps				Temp. Rise @ S.F. Load	40°C
				Locked-rotor Power Factor	31.4

Load Characteristics 460 V, 60 Hz, 30 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	51	72	80	84	85	85	85
Efficiency	90.4	93.4	93.9	93.6	92.8	91.9	93.1
Speed	1792.8	1786.6	1780	1773.1	1765.1	1756.4	1768
Line amperes	15.6	20.9	27.9	35.9	44.5	53.9	41.1

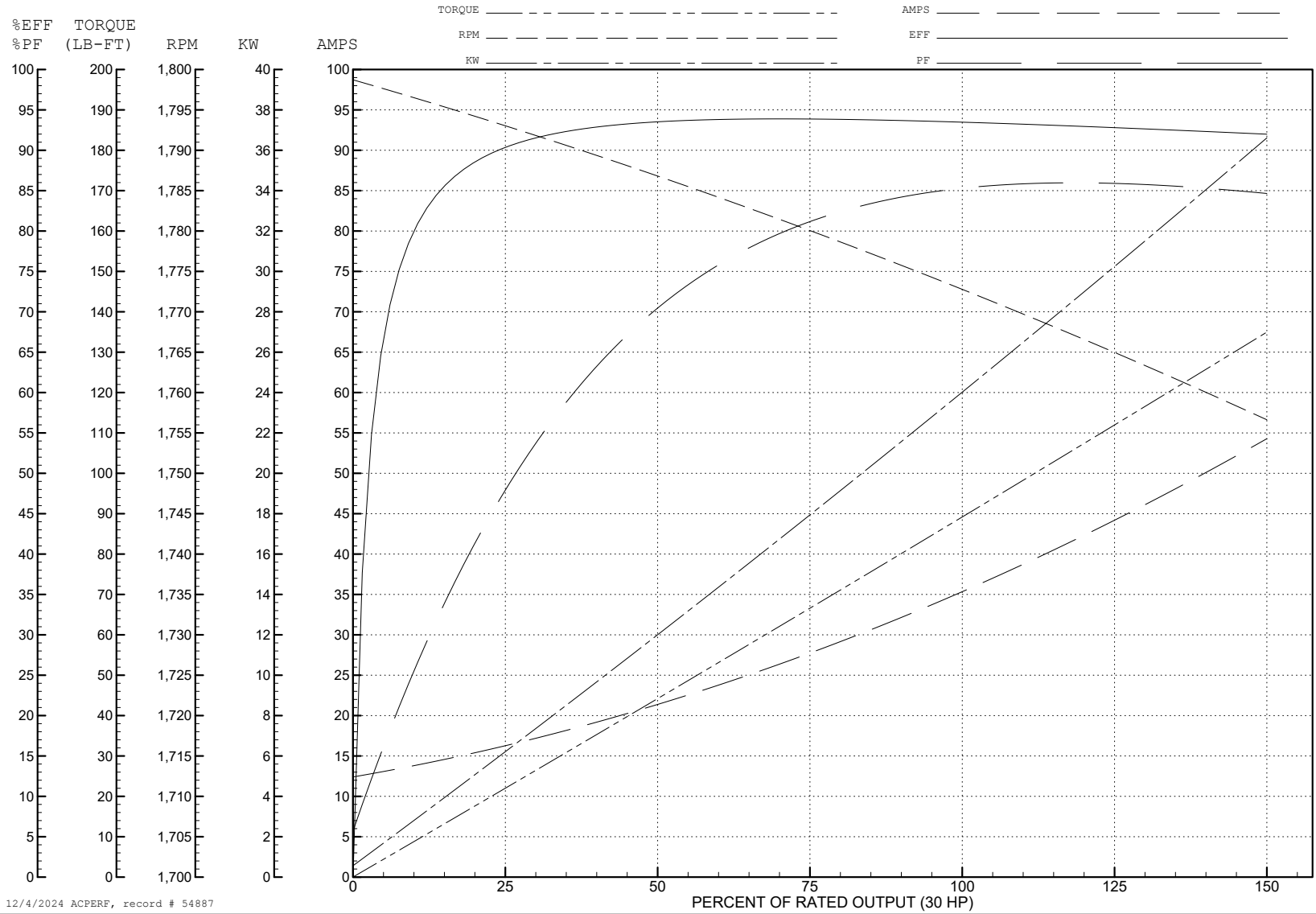
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WINDING # 40WGx324

Typical performance - not guaranteed values.

30 HP 3 PH 60 HZ 1773.1 RPM 460 V 4052M

TORQUES (LB-FT): PO=258 PU=113 LR=143 LRA=211



12/4/2024 ACPERF, record # 54887

AC Induction Motor Performance Data

Record # 54888

Typical performance - not guaranteed values

Winding: 40WGX324-R001		Type: 4052M		Enclosure: OPEN	
Nameplate Data			380 V, 50 Hz: High Voltage Connection		
Rated Output (HP)	30//25		Full Load Torque	89.8 LB-FT	
Volts	230/460//190/380		Start Configuration	direct on line	
Full Load Amps	72/36		Breakdown Torque	250 LB-FT	
R.P.M.	1770//1470		Pull-up Torque	116 LB-FT	
Hz	60//50	Phase	3	Locked-rotor Torque	147 LB-FT
NEMA Design Code	B KVA Code		G	Starting Current	201 A
Service Factor (S.F.)			1.15	No-load Current	12.7 A
NEMA Nom. Eff.	92.4	Power Factor	84	Line-line Res. @ 25°C	0.261 Ω
Rating - Duty			40C AMB-CONT	Temp. Rise @ Rated Load	33°C
S.F. Amps				Temp. Rise @ S.F. Load	41°C
				Locked-rotor Power Factor	34.8
				Rotor inertia	4.14 LB-FT ²

Load Characteristics 380 V, 50 Hz, 25 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	53	73	81	85	86	85	86
Efficiency	89.8	92.7	93.1	92.7	92.2	90.7	92.4
Speed	1493	1487	1480	1472	1464	1455	1467
Line amperes	15.4	20.8	28	36.3	45.2	55.2	41.6

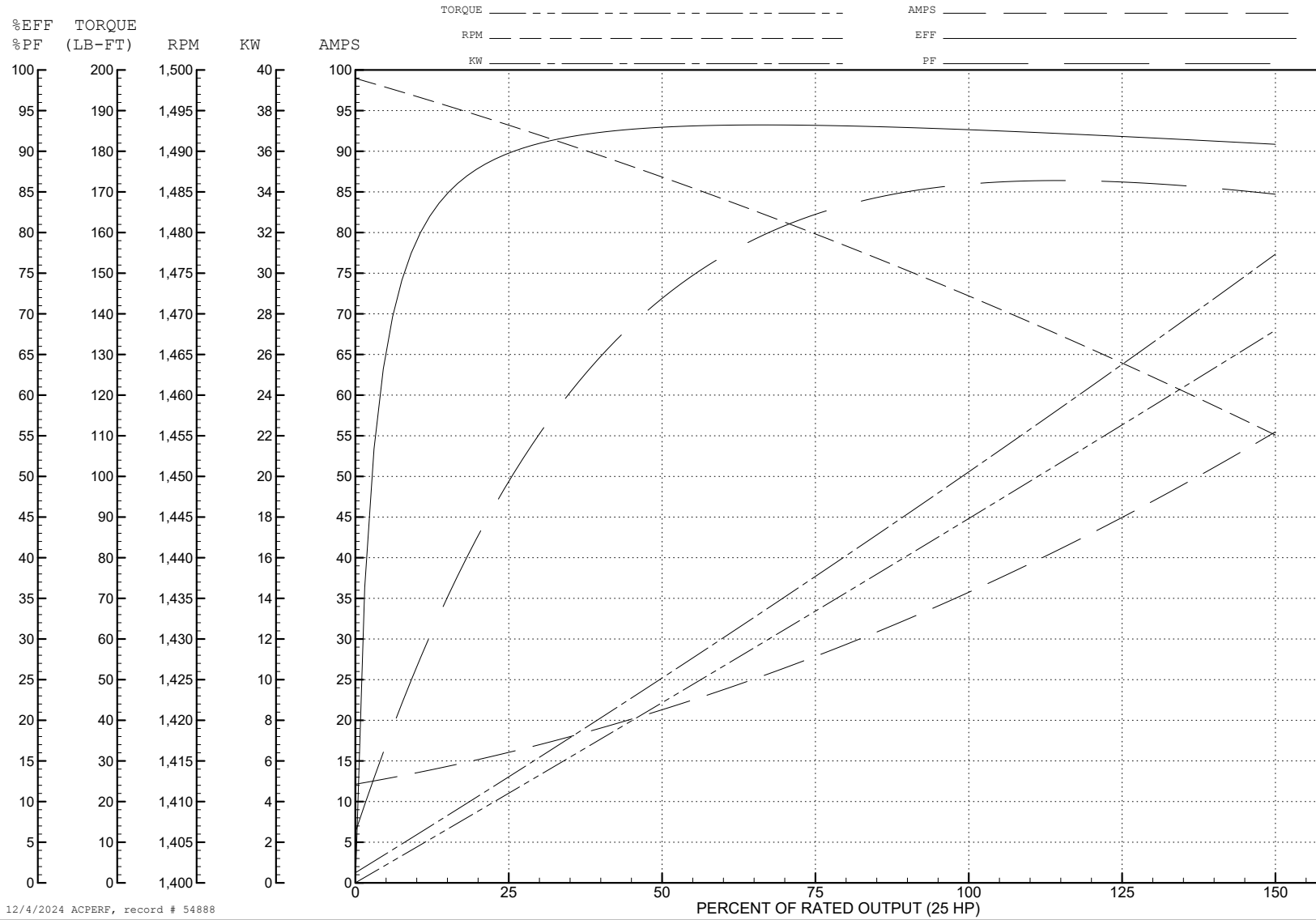
ABB Motors and Mechanical Inc.

WINDING # 40WGX324

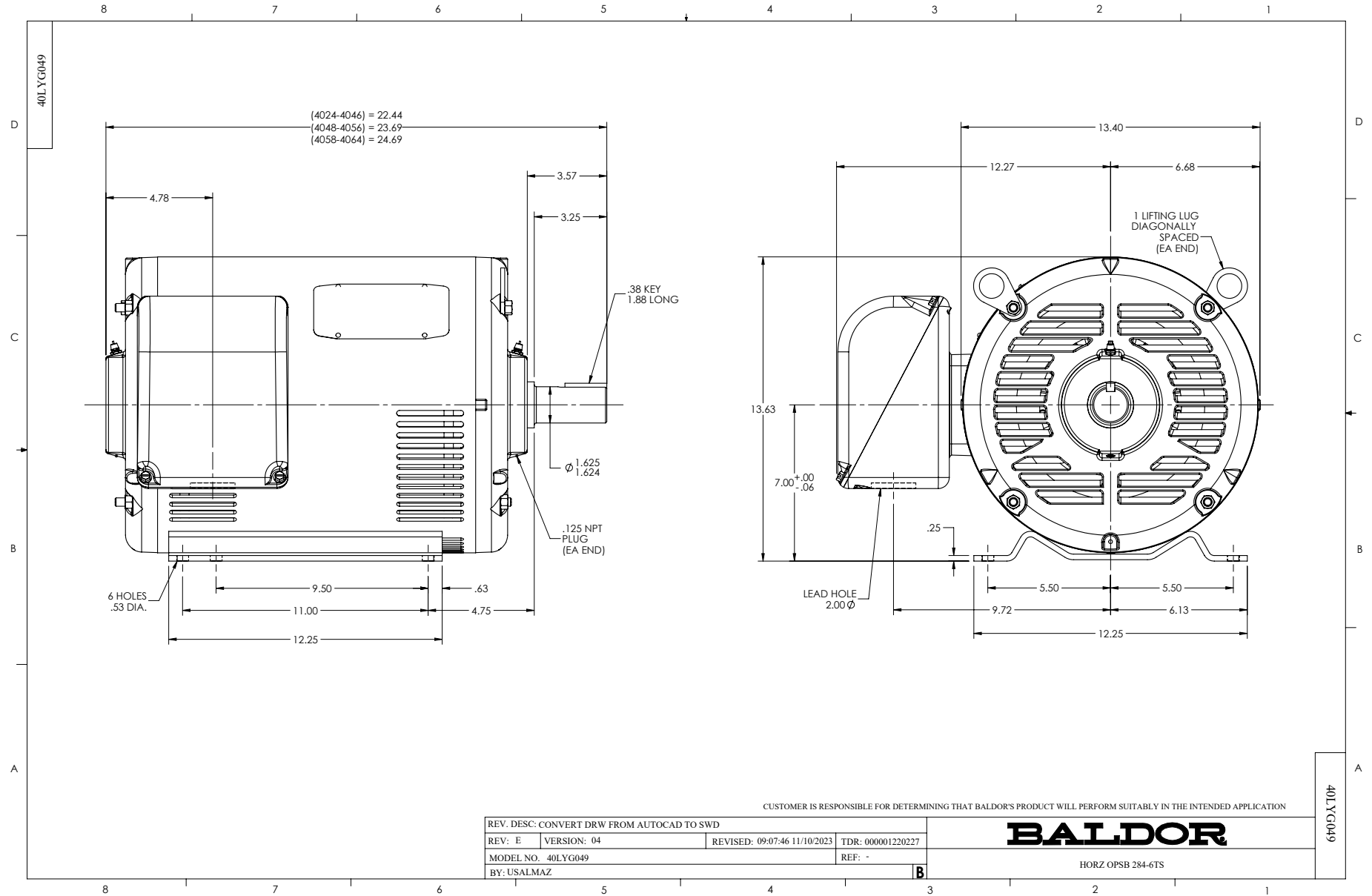
Typical performance - not guaranteed values.

25 HP 3 PH 50 HZ 1472 RPM 380 V 4052M

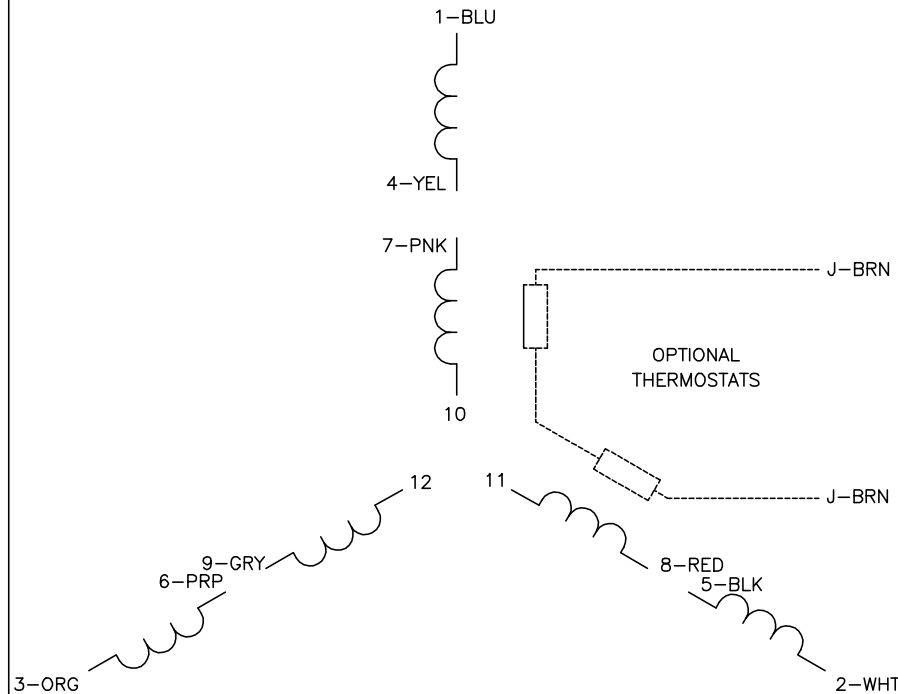
TORQUES (LB-FT): PO=250 PU=116 LR=147 LRA=201



12/4/2024 ACPERF, record # 54888

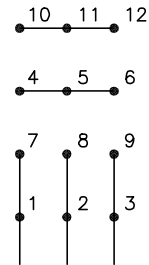


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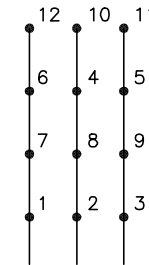
LOW VOLTAGE

START (2Y)



LINE

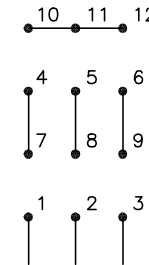
RUN (2D)



LINE

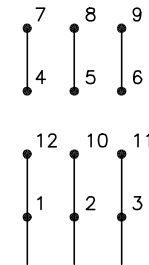
HIGH VOLTAGE

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

REV. DESC: ADD CLASS CONN00000007		
REV. LTR: D	VERSION: 01	TDR: 000001099922
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

SH 1 of 1