

BALDOR® • RELIANCE 

Product Information Packet

FPM2535TS

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

Part Detail							
Revision:	J	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	40WGX324	CD Diagram:	CD0104	Mfg Plant:	
Mech. Spec:	40G49	Layout:	40LYG049	Poles:	04	Created Date:	11-30-2015
Base:	RG	Eff. Date:	04-05-2019	Leads:	12#10		

Specs			
Catalog Number:	FPM2535TS	Front Shaft Indicator:	None
Enclosure:	ODP	Heater Indicator:	No Heater
Frame:	286TS	Insulation Class:	F
Frame Material:	Steel	Inverter Code:	Not Inverter
Motor Letter Type:	Three Phase	IP Rating:	NONE
Output @ Frequency:	30.000 HP @ 60 HZ	KVA Code:	G
	25.000 HP @ 50 HZ	Lifting Lugs:	Standard Lifting Lugs
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ	Locked Bearing Indicator:	No Locked Bearing
Voltage @ Frequency:	230.0 V @ 60 HZ	Motor Lead Quantity/Wire Size:	12 @ 10 AWG
	190.0 V @ 50 HZ	Motor Lead Exit:	Ko Box
	460.0 V @ 60 HZ	Motor Lead Termination:	Flying Leads
	380.0 V @ 50 HZ	Motor Type:	4052M
Agency Approvals:	UL	Mounting Arrangement:	F1
	UR	Power Factor:	84
	CSA EEV	Product Family:	Fire Pump Motor
	CSA	Pulley End Bearing Type:	Ball
Auxillary Box:	No Auxillary Box	Pulley Face Code:	Standard
Auxillary Box Lead Termination:	None	Pulley Shaft Indicator:	Standard

Base Indicator:	Rigid	Rodent Screen:	None
Bearing Grease Type:	Polyrex EM (-20F +300F)	Shaft Extension Location:	Pulley End
Blower:	None	Shaft Ground Indicator:	No Shaft Grounding
Current @ Voltage:	72.000 A @ 230.0 V	Shaft Rotation:	Reversible
	72.000 A @ 190.0 V	Shaft Slinger Indicator:	No Slinger
	36.000 A @ 460.0 V	Speed Code:	Single Speed
	36.000 A @ 380.0 V	Motor Standards:	NEMA
Design Code:	B	Starting Method:	Wye Start - Delta Run
Drip Cover:	No Drip Cover	Thermal Device - Bearing:	None
Duty Rating:	CONT	Thermal Device - Winding:	None
Electrically Isolated Bearing:	Not Electrically Isolated	Vibration Sensor Indicator:	No Vibration Sensor
Feedback Device:	NO FEEDBACK	Winding Thermal 1:	None
Front Face Code:	Standard	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							

Parts List		
Part Number	Description	Quantity
SA311017	SA 40G049X324H2	1.000 EA
RA298430	RA 40G049X324H2	1.000 EA
HA6361A01	LIFTING LUG FOR 37, 39 & 40 FRAME ZINC	2.000 EA
HA6017	CAST ADAPTER, 40,42 KOBX	1.000 EA
19XW3118A12	.31-18 X .75 HEX WASHER HEAD TAPTITE II	2.000 EA
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	2.000 EA
WD1000B25	GND LUG, BURNDY L125HP OR T&B L125HP-BB	1.000 EA
19XW3118G08	.31-18X.50,HEX WSHR HD,TAPTITE 2,GREEN	1.000 EA
10CB3000SP	KOBX, CAST W/2.00 LEAD HOLE	1.000 EA
19XW3118A12	.31-18 X .75 HEX WASHER HEAD TAPTITE II	4.000 EA
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	4.000 EA
40EP3200A02	STD FREP OPEN 309 BRG	1.000 EA
HW5100A11	W3917-042 WVY WSHR (WB)	1.000 EA
40EP3200B05	STD PUEP OPEN 311 BRG	1.000 EA
XY3816A12	3/8-16 FINISHED NUT	8.000 EA
10CB3500SP	CONDUIT BOX LID, CAST	1.000 EA
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	4.000 EA
HW2501G17	KEY, 3/8 SQ X 1.875	1.000 EA
LB1115N	LABEL,LIFTING DEVICE (ON ROLLS)	1.000 EA
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 EA
HW4500A20	1/8NPT SL PIPE PLUG	1.000 EA
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
MG1025R44	WILKOFAS, 784.109, CARMINE RED #3002	0.050 GA
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 LB

Parts List (continued)		
Part Number	Description	Quantity
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 EA
HW4500A20	1/8NPT SL PIPE PLUG	1.000 EA
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 EA
40AD2002A01	LEXAN BAFFLE 40 FR OPEN	1.000 EA
40AD2002A01	LEXAN BAFFLE 40 FR OPEN	1.000 EA
HA3154A04	THRUBOLT STUD 3/8-16 X 18.750	4.000 EA
LB1119N	WARNING LABEL	1.000 EA
LC0104A01	CONNECTION DIAGRAM	1.000 EA
NP3454L	ALUM FIRE PUMP MOTOR(LEGACY/BALDOR ONLY)	1.000 EA
40PA1000	PACKAGING GROUP	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (2100/bx) 4/22	1.000 EA

AC Induction Motor Performance Data

Record # 54887

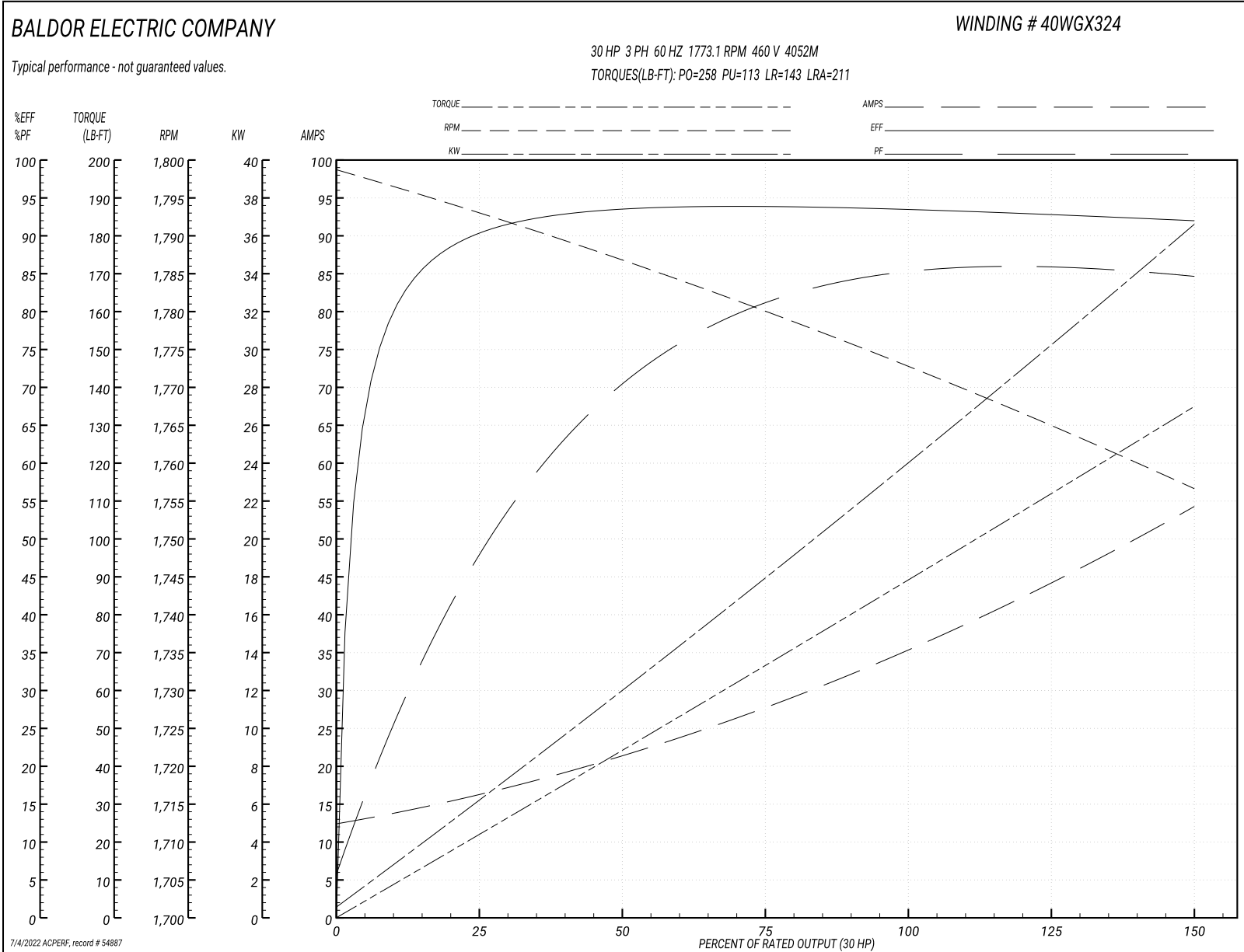
Typical performance - not guaranteed values

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

Performance Graph at 460V, 60Hz, 30.0HP Typical performance - Not guaranteed values



AC Induction Motor Performance Data

Record # 54888

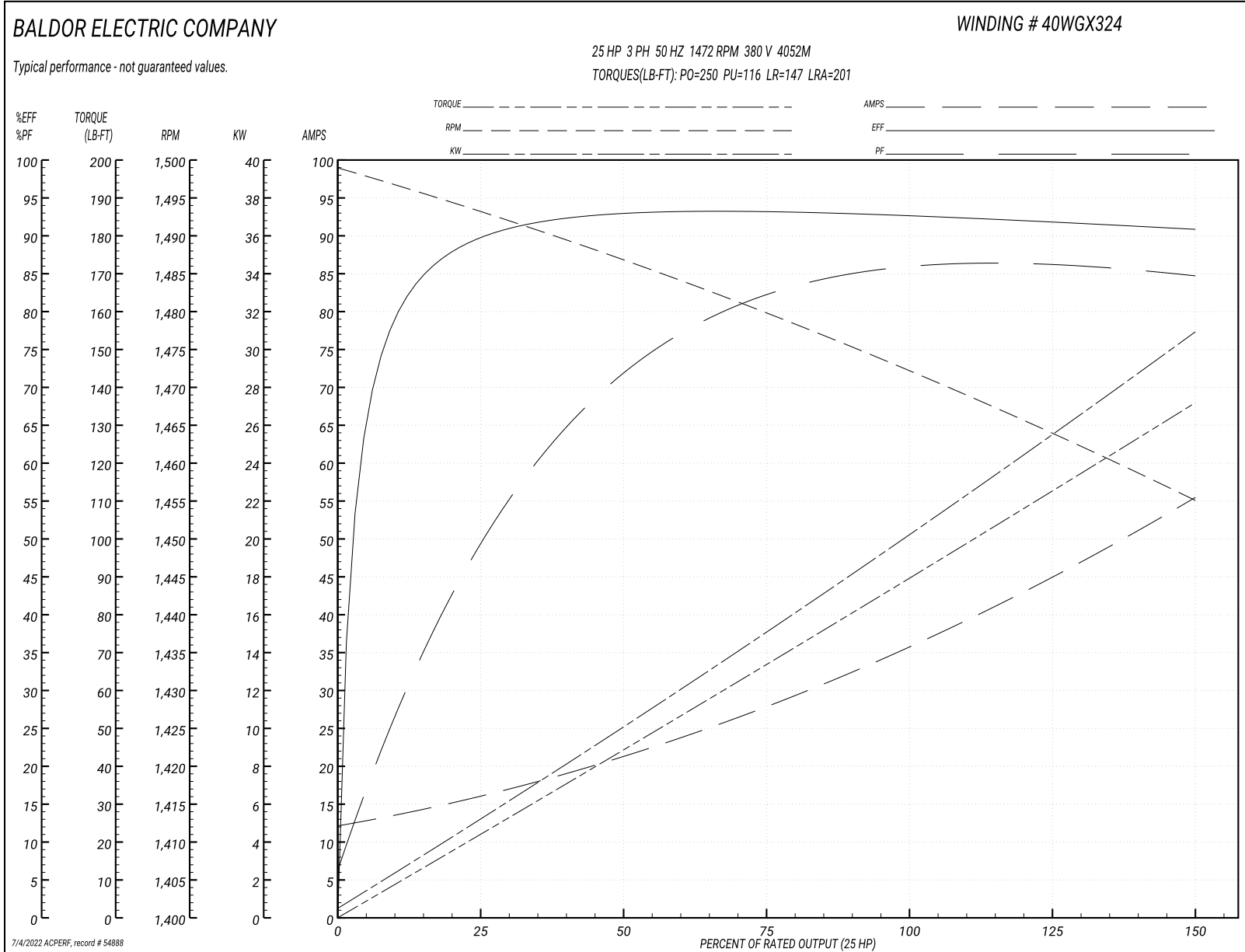
Typical performance - not guaranteed values

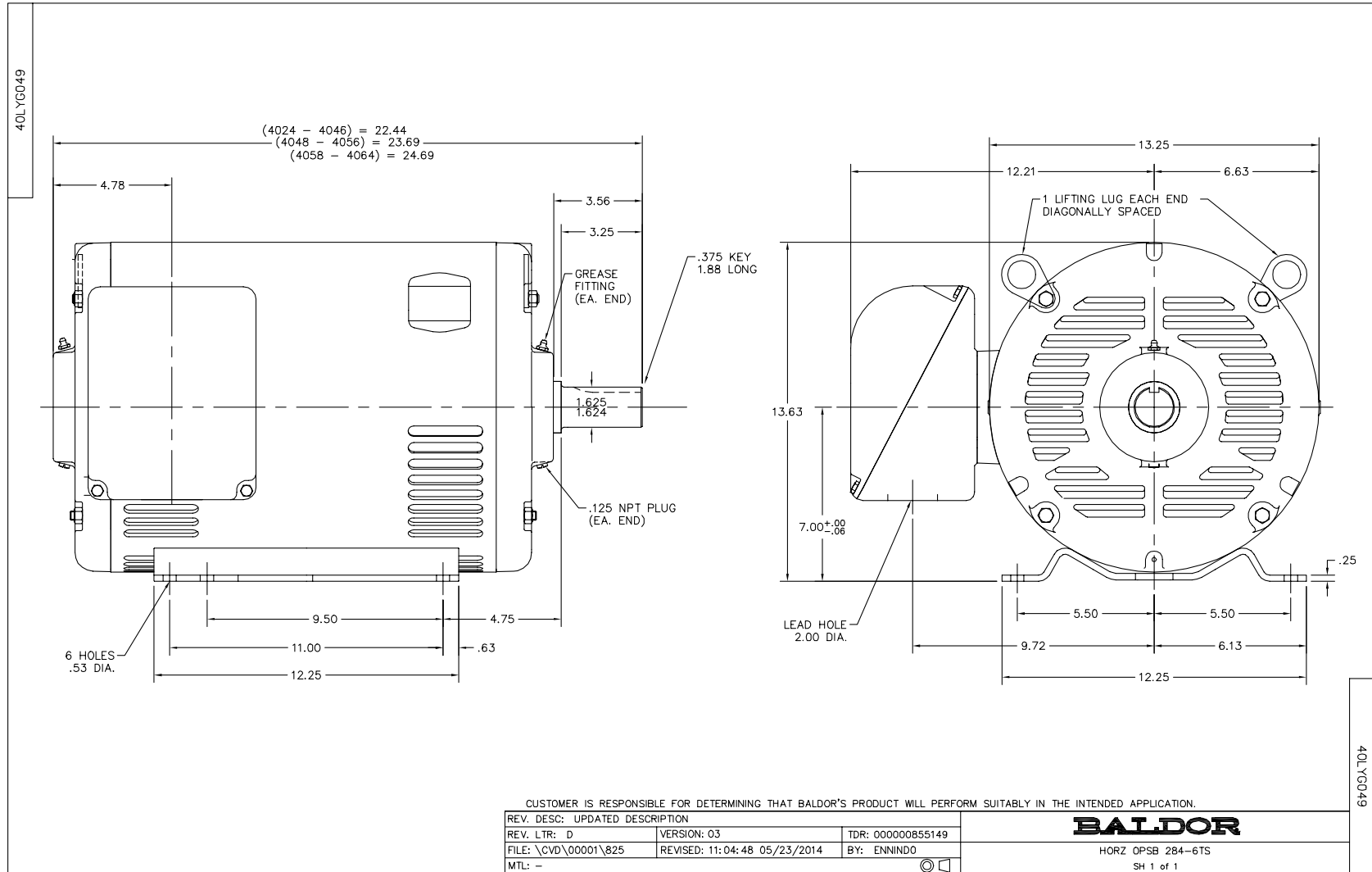
Winding: 40WGX324-R001		Type: 4052M		Enclosure: OPEN	
Nameplate Data			380 V, 50 Hz: High Voltage Connection		
Rated Output (HP)	30//25		Full Load Torque	89.8 LB-FT	
Volts	230/460//190/380		Start Configuration	direct on line	
Full Load Amps	72/36		Breakdown Torque	250 LB-FT	
R.P.M.	1770//1470		Pull-up 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

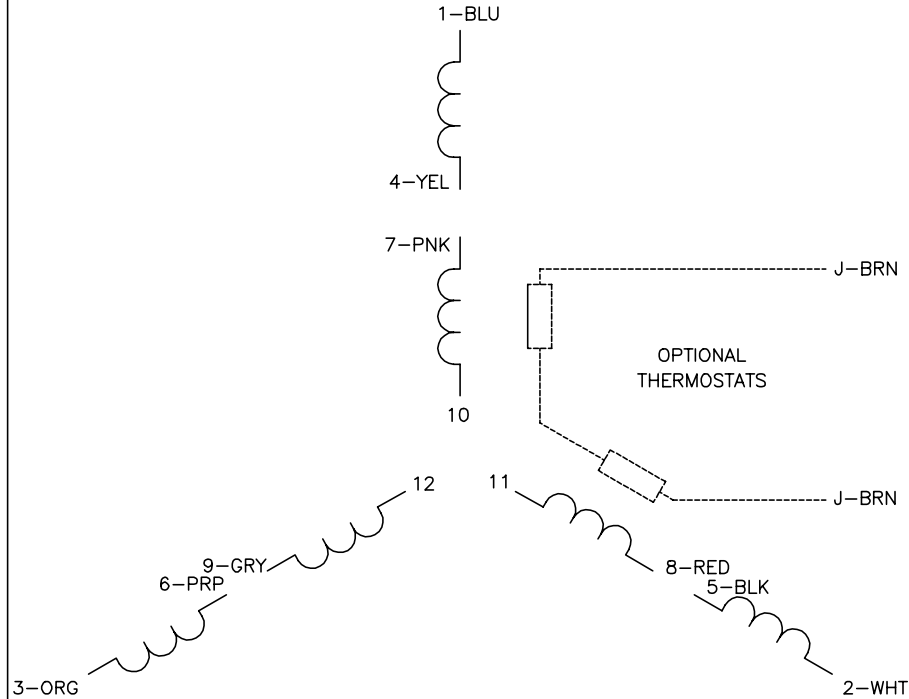
% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	53	73	81	85	86	85	86
Efficiency	89.8	92.7	93.1	92.7	92.2	90.7	92.4
Speed	1493	1487	1480	1472	1464	1455	1467
Line amperes	15.4	20.8	28	36.3	45.2	55.2	41.6

Performance Graph at 380V, 50Hz, 25.0HP Typical performance - Not guaranteed values

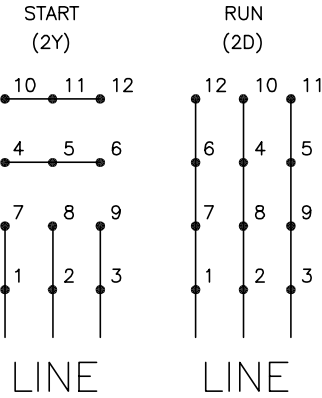




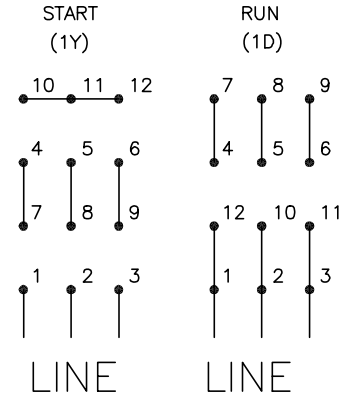
CD0104



LOW VOLTAGE



HIGH VOLTAGE



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

SH 1 of 1

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