

BALDOR® • RELIANCE 

Product Information Packet

FPM2546T

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

Part Detail							
Revision:	L	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	40WGX318	CD Diagram:	CD0104	Mfg Plant:	
Mech. Spec:	40H07	Layout:	40LYH007	Poles:	02	Created Date:	09-16-2015
Base:	RG	Eff. Date:	08-22-2018	Leads:	12#8		

Specs			
Catalog Number:	FPM2546T	Front Shaft Indicator:	None
Enclosure:	ODP	Heater Indicator:	No Heater
Frame:	326TS	Insulation Class:	F
Frame Material:	Steel	Inverter Code:	Not Inverter
Output @ Frequency:	50.000 HP @ 50 HZ	KVA Code:	G
	60.000 HP @ 60 HZ	Lifting Lugs:	Standard Lifting Lugs
Synchronous Speed @ Frequency:	3600 RPM @ 60 HZ	Locked Bearing Indicator:	No Locked Bearing
Voltage @ Frequency:	460.0 V @ 60 HZ	Motor Lead Quantity/Wire Size:	12 @ 8 AWG
	380.0 V @ 50 HZ	Motor Lead Exit:	Ko Box
	230.0 V @ 60 HZ	Motor Lead Termination:	Flying Leads
	190.0 V @ 50 HZ	Motor Type:	4062M
Agency Approvals:	CSA	Mounting Arrangement:	F1
	CSA EEV	Power Factor:	89
	UL	Product Family:	Fire Pump Motor
	UR	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:	69.000 A @ 380.0 V	Shaft Rotation:	Reversible
	68.000 A @ 460.0 V	Shaft Slinger Indicator:	No Slinger
	138.000 A @ 190.0 V	Speed Code:	Single Speed
	136.000 A @ 230.0 V	Motor Standards:	NEMA
Design Code:	B	Starting Method:	Wye Start - Delta Run
Drip Cover:	No Drip Cover	Thermal Device - Bearing:	NONE (OLD)
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.	FPM2546T			CUST P/N				I.P.	23		
SPEC.	40H007X318H2			SER.NO.				FRAME	326TS		
HZ	60	HP	60	RPM	3520	HZ	50	HP	50	RPM	2920
VOLTS	230/460			CODE	G	VOLTS	190/380			CODE	F
AMPS	136/68			DES	B	AMPS	138/69			DES	B
EFF	93	SER.F.	1.15	PF	89	EFF	91.7	SER.F.	1.15	PF	89
RATING	40C AMB-CONT			DE BRG	6312			GREASE	POLYREX EM		
BLANK				ODE BRG	6309			MTR. WT.	390		
				CLASS	F		PH	3			
				ENCL	ODP		CC	010A			
HTR-VOLTS		HTR-AMPS		HTR-WATTS							

Parts List		
Part Number	Description	Quantity
SA307335	SA 40H007X318H2	1.000 EA
RA294636	RA 40H007X318H2	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
10CB3001	CONDUIT BOX CAST W/2.500 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
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
HA3159A08	THRUBOLT- .38-16 X 20.00 LONG STUD	4.000 EA
MG1025R44	WILKOFAS, 784.109, CARMINE RED #3002	0.050 GA
HW5100A11	W3917-042 WVY WSHR (WB)	1.000 EA
40EP3201A01	PU ENDPLATE, MACH - OPEN - FOR 312 BRG	1.000 EA
HA4051A00	PLASTIC CAP FOR GREASE FITTING	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
HW2501H18	KEY, 1/2 SQ X 2.000	1.000 EA
LB1115N	LABEL,LIFTING DEVICE (ON ROLLS)	1.000 EA
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA

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
MJ1000A02	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.050 LB
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
40AD2002B01	LEXAN BAFFLE 40 FR OPEN	1.000 EA
40AD2002B01	LEXAN BAFFLE 40 FR OPEN	1.000 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

AC Induction Motor Performance Data

Record # 55052 - Typical performance - not guaranteed values

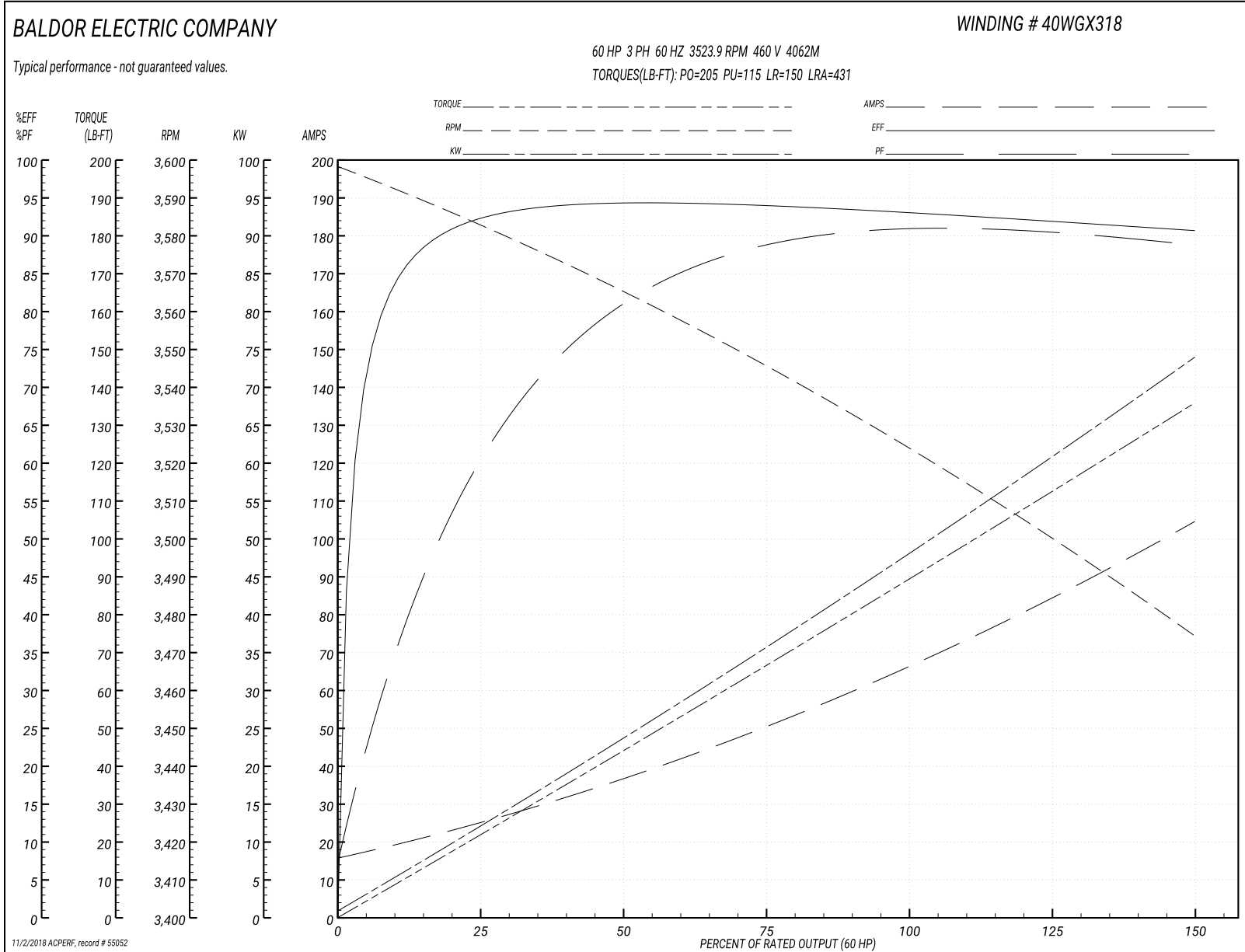
Winding: 40WGX318-R001	Type: 4062M	Enclosure: OPSB
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Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	60//50			Full Load Torque	89.6 LB-FT
Volts	230/460//190/380			Start Configuration	direct on line
Full Load Amps	136/68//138/69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

Load Characteristics 460 V, 60 Hz, 60 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	65	83	88	89	90	89	90
Efficiency	92.1	94.1	93.9	93.1	92	90.6	92.4
Speed	3581.9	3565	3545.4	3523.9	3501.1	3473.4	3510
Line amperes	23.8	36.1	50.8	67.6	85.1	104	78.1

Performance Graph at 460V, 60Hz, 60.0HP Typical performance - Not guaranteed values



AC Induction Motor Performance Data

Record # 55053 - Typical performance - not guaranteed values

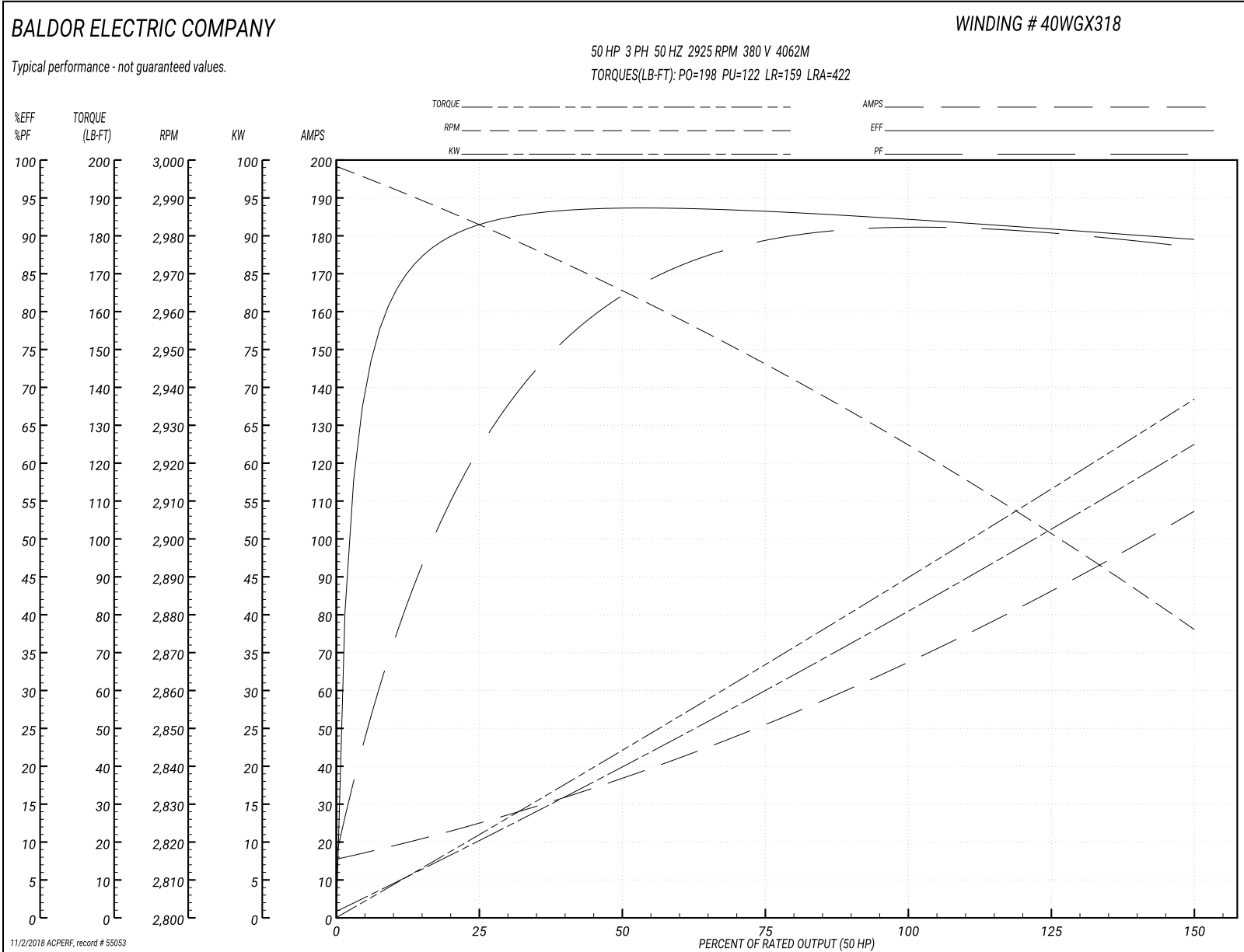
Winding: 40WGX318-R001	Type: 4062M	Enclosure: OPSB
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Nameplate Data				380 V, 50 Hz: High Voltage Connection	
Rated Output (HP)	60//50			Full Load Torque	89.9 LB-FT
Volts	230/460//190/380			Start Configuration	direct on line
Full Load Amps	136/68//138/69			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 ²

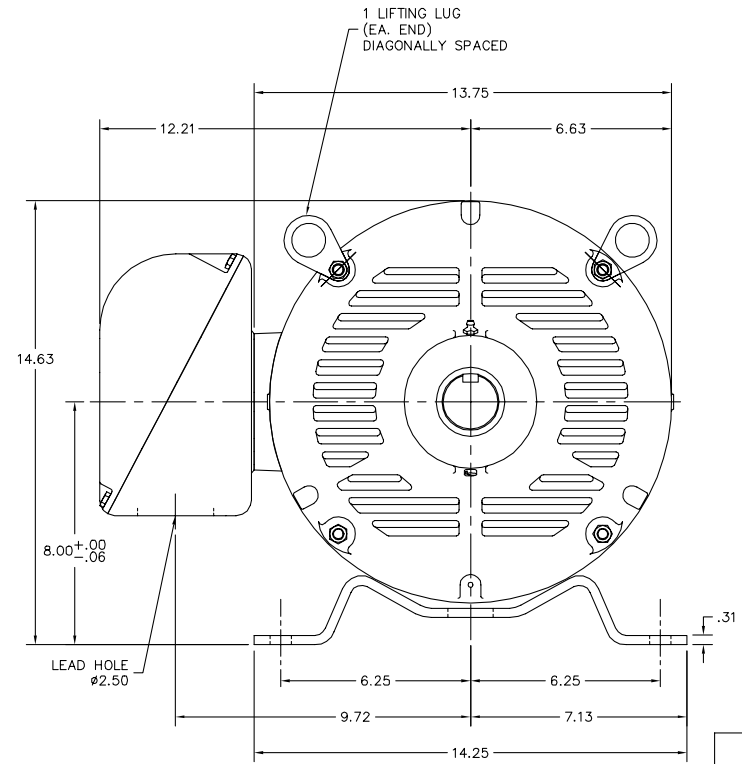
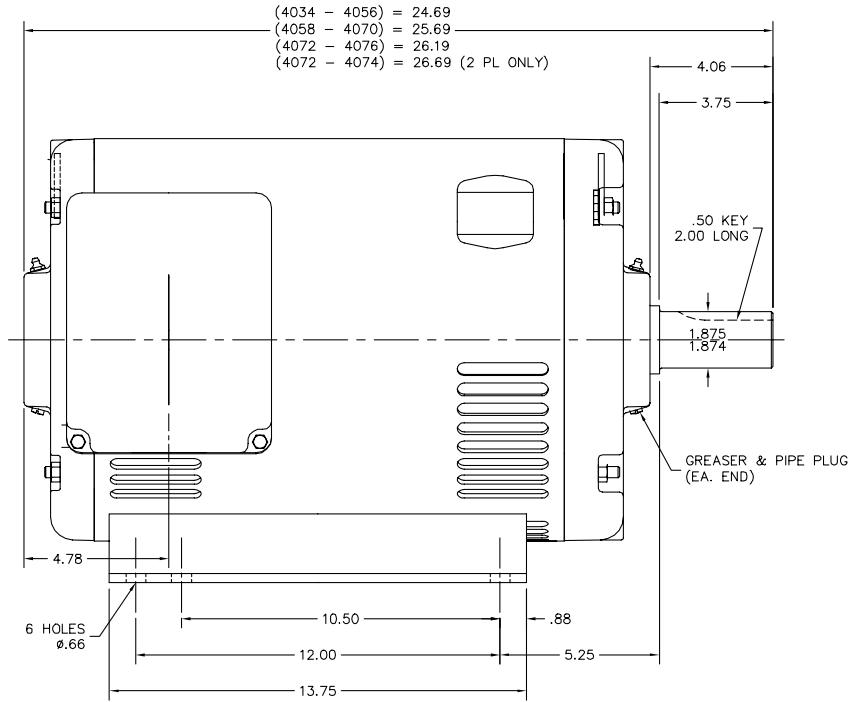
Load Characteristics 380 V, 50 Hz, 50 HP

% 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

Performance Graph at 380V, 50Hz, 50.0HP Typical performance - Not guaranteed values



40LYH007



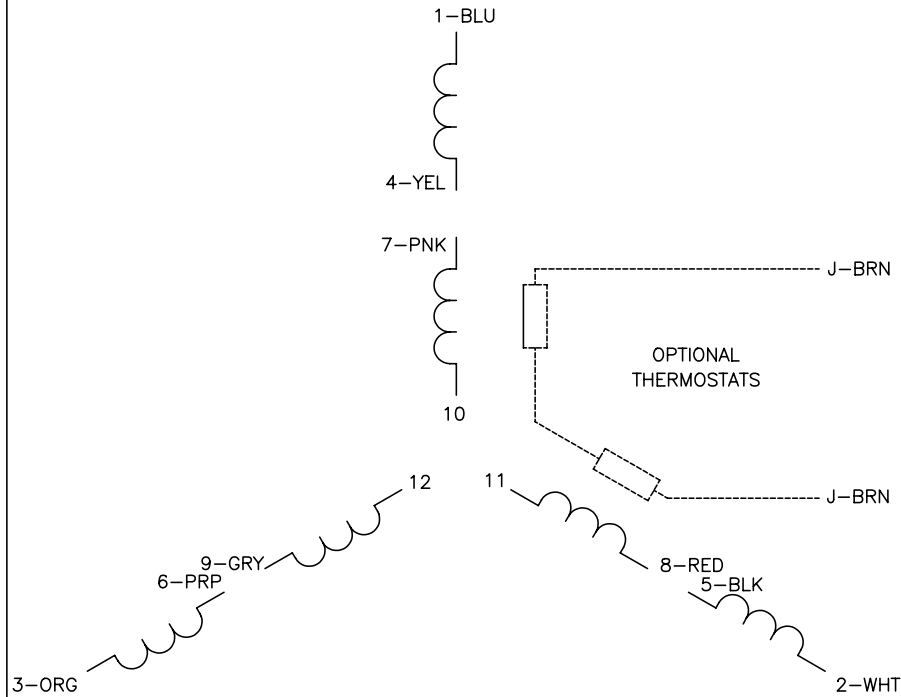
40LYH007

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.

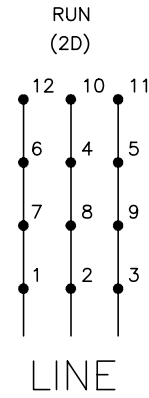
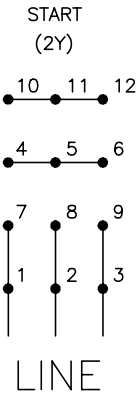
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REV. LTR: M	VERSION: 06	TDR: 000000855149
FILE: \AAA\00008\628	REVISED: 11:27:19 05/23/2014	BY: ENNINDO
MTL: -		

BALDOR
 HORZ OPSB 324-6TS
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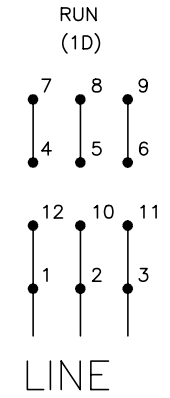
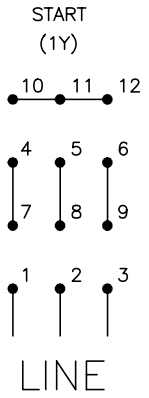
CD0104



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.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
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CD0104		FILE: AAA00008377	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

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

CD0104