

BALDOR® • RELIANCE 

Product Information Packet

XM32442T

40HP, 1775//1480RPM, 3PH, 60//50HZ, 324T, XPF

Part Detail							
Revision:	-	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	12WGY276	CD Diagram:	CD0180	Mfg Plant:	
Mech. Spec:		Layout:	12LYL018	Poles:	04	Created Date:	06-24-2020
Base:		Eff. Date:	09-08-2020	Leads:	9#8		

Specs			
Catalog Number:	XM32442T	Duty Rating:	CONT
Enclosure:	XPFC	Electrically Isolated Bearing:	Not Electrically Isolated
Frame:	324T	Feedback Device:	NO FEEDBACK
Frame Material:	Iron	Heater Indicator:	No Heater
Output @ Frequency:	30.000 HP @ 50 HZ	Insulation Class:	B
	40.000 HP @ 60 HZ	Inverter Code:	Inverter Duty
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ	IP Rating:	NONE
Voltage @ Frequency:	230.0 V @ 60 HZ	KVA Code:	H
	190.0 V @ 50 HZ	Lifting Lugs:	Standard Lifting Lugs
	380.0 V @ 50 HZ	Locked Bearing Indicator:	Locked Bearing
	460.0 V @ 60 HZ	Motor Lead Termination:	Flying Leads
XP Class and Group:	CLI GP D; CLII GP F,G	Motor Type:	1254M
XP Division:	Division I	Mounting Arrangement:	F1
Agency Approvals:	UR	Power Factor:	82
	CSA EEV	Product Family:	Hazardous Location Motor
	CSA	Pulley Face Code:	Standard
Auxillary Box:	No Auxillary Box	Rodent Screen:	None
Auxillary Box Lead Termination:	None	RoHS Status:	ROHS NON-COMPLIANT

Base Indicator:	Rigid	Shaft Ground Indicator:	No Shaft Grounding
Bearing Grease Type:	Polyrex EM (-20F +300F)	Shaft Rotation:	Reversible
Blower:	None	Speed Code:	Single Speed
Constant Torque Speed Range:	6	Motor Standards:	NEMA
Current @ Voltage:	96.000 A @ 230.0 V	Starting Method:	Direct on line
	90.000 A @ 190.0 V	Thermal Device - Bearing:	None
	48.000 A @ 460.0 V	Thermal Device - Winding:	Normally Closed Thermostat
	45.000 A @ 380.0 V	Vibration Sensor Indicator:	No Vibration Sensor
Design Code:	A	Winding Thermal 1:	None
Drip Cover:	No Drip Cover	Winding Thermal 2:	None
		XP Temp Code:	T3C

Nameplate NP0887XPSLEV										
NO.						CC	010A			
S/N						TEMP CODE	T3C			
SPEC.	12-0000-1730					INV.TYPE	PWM			
CAT.NO.	XM32442T					C HP FR	60		C HP TO	90
HP	40//30					CT HZ FROM	6		CT HZ TO	60
VOLTS	230/460//190/380					VT HZ FROM	6		VT HZ TO	60
AMPS	96/48//90/45					MAG CUR	40/20			
RPM	1775//1480					MX RPM	2700			
HZ	60//50		PH	3	CL	F		NOM.EFF.	94.1	
SER.F.	1.00		DES	A	SL HZ	0.83		WK2	7.19	
FRAME	324T		RATING	40C AMB-CONT						
	1.15SF ON SINEWAVE									
	NEMA MG-1,PT.5,IP54									

Parts List		
Part Number	Description	Quantity
SA385208	SA 12-0000-1730	1.000 EA
RA375450	RA 12-0000-1730	1.000 EA
LB1115N	LABEL,LIFTING DEVICE (ON ROLLS)	1.000 EA
LB1119N	WARNING LABEL	1.000 EA
LC0181	CONNECTION LABEL	1.000 EA
NP0887XPSLEV	SS XP INV UL CSA-EEV CC CL-I GP-D	1.000 EA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	4.000 EA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (2100/bx) 4/22	1.000 EA
LB1073	ALUM XP CAUTION LABEL	1.000 EA
12FH1001A01	FAN HOUSING 312 EXPLOSION PROOF MOTORS	1.000 EA
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	3.000 EA
10XN3118K12	5/16-18 X .75 GRADE 5, ZINC PLATED	3.000 EA
09FN3001B03SP	EXTERNAL FAN, PLASTIC (COMES W/SCREW FRO	1.000 EA
HW2500A25	WOODRUFF KEY USA #1008 #BLOW CARBON STEE	1.000 EA
MJ1000A02	GREASE, MOBIL POLYREX EM - 124047	0.200 LB
12EP1705A01	ENDPLATE, MACH. 312 - EXPLOSION PROOF 31	1.000 EA
HA3051A03	1/2-13X2.75 BLT GR8 1.75 TO E NC F/S	4.000 EA
HW1001A50	LOCKWASHER 1/2, ZINC PLT.,.879 OD, .509 I	4.000 EA
HW5100A13	W4627-047 WVY WSHER	1.000 EA
HW4500A20	1/8NPT SL PIPE PLUG	1.000 EA
HW4500A20	1/8NPT SL PIPE PLUG	1.000 EA
12EP1706A01	ENDPLATE, MACH. 312 - EXPLOSION PROOF 31	1.000 EA
HW1001A50	LOCKWASHER 1/2, ZINC PLT.,.879 OD, .509 I	4.000 EA

Parts List (continued)		
Part Number	Description	Quantity
HA3051A03	1/2-13X2.75 BLT GR8 1.75 TO E NC F/S	4.000 EA
10XN3118K40	5/16-18 X 2.75" HEX HD, GRADE 5	4.000 EA
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	4.000 EA
HW4500A20	1/8NPT SL PIPE PLUG	1.000 EA
HW4500A20	1/8NPT SL PIPE PLUG	1.000 EA
12CB1001A01	K.O.BOX, MACH X-PROOF, 1.50 NPT HOLE	1.000 EA
10XN3118K16	5/16-18 X 1' GRADE #5, STL, ZINC PLATE	4.000 EA
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	4.000 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
12CB1501A01	COND.BOX LID, MACH., X-PROOF, 310,312	1.000 EA
10XN3816K20	3/8-16 X 1.25 HEX HD CAP GRADE 5	6.000 EA
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	6.000 EA
MG1025G29	WILKOFAS, 789.229, DARK CHARCOAL GRAY	0.125 GA
14PA1000	PACKAGING 314 GROUP COMBINED PRINT	1.000 EA
HW2501H33	KEY, 1/2 SQ X 3.875	1.000 EA

AC Induction Motor Performance Data

Record # 43813

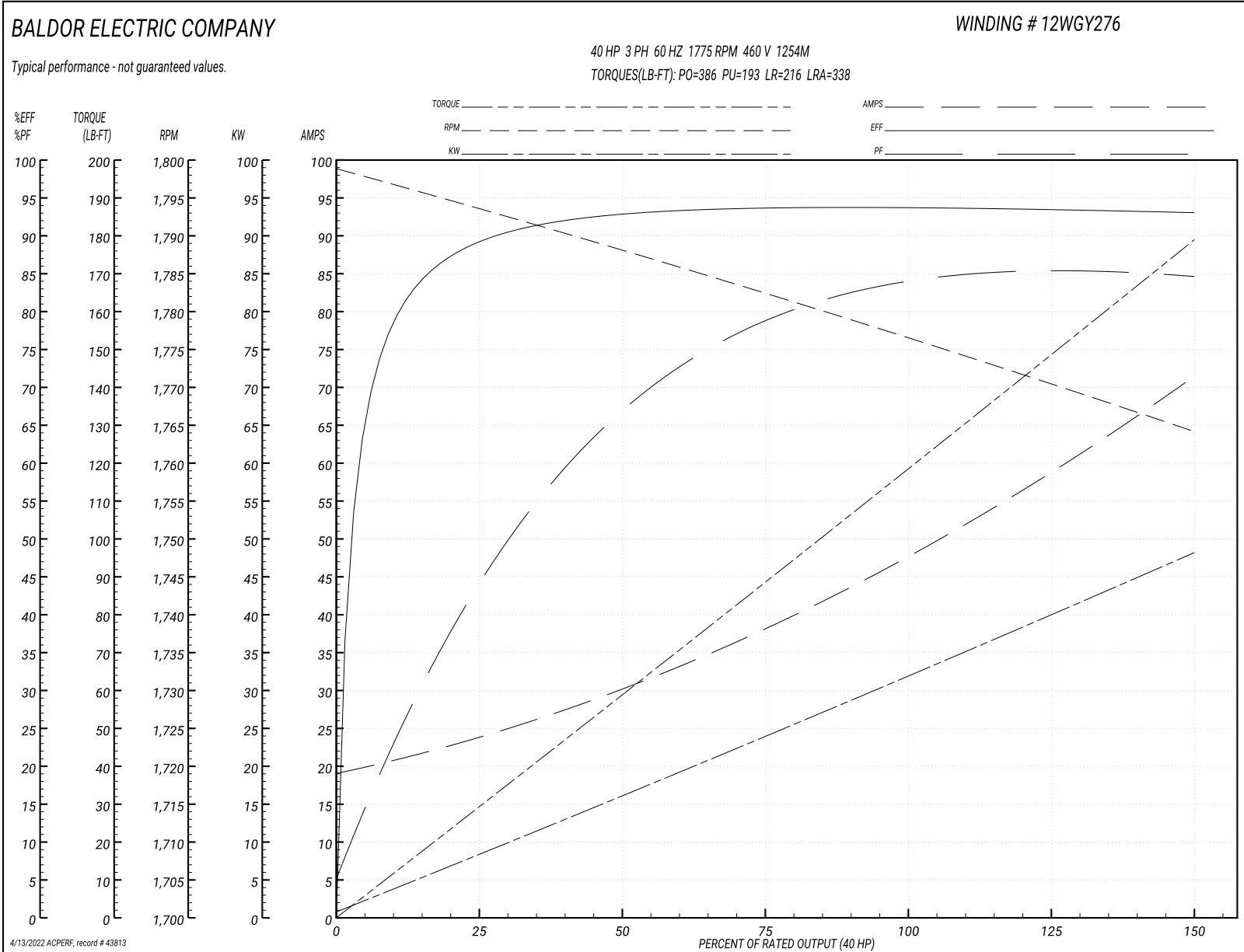
Typical performance - not guaranteed values

Winding: 12WGY276-R023		Type: 1254M		Enclosure: XPFC	
Nameplate Data			460 V, 60 Hz: High Voltage Connection		
Rated Output (HP)	40	Full Load Torque	118 LB-FT		
Volts	230/460	Start Configuration	direct on line		
Full Load Amps	96/48	Breakdown Torque	386 LB-FT		
R.P.M.	1775	Pull-up Torque	193 LB-FT		
Hz	60 Phase	Locked-rotor Torque	216 LB-FT		
NEMA Design Code	A	Starting Current	338 A		
Service Factor (S.F.)		No-load Current	19.9 A		
NEMA Nom. Eff.	94.1	Line-line Res. @ 25°C	0.14898 Ω		
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	54°C		
		Locked-rotor Power Factor	27		
		Rotor inertia	7.19 LB-FT ²		

Load Characteristics 460 V, 60 Hz, 40 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	47	69	78	83	85	85
Efficiency	90.1	93.5	94.2	94.2	93.8	93.1
Speed	1793.5	1788	1782.5	1776.6	1770.7	1764.1
Line amperes	22.9	29.5	38.4	48.1	59.2	70.8

Performance Graph at 460V, 60Hz, 40.0HP Typical performance - Not guaranteed values



AC Induction Motor Performance Data

Record # 74483

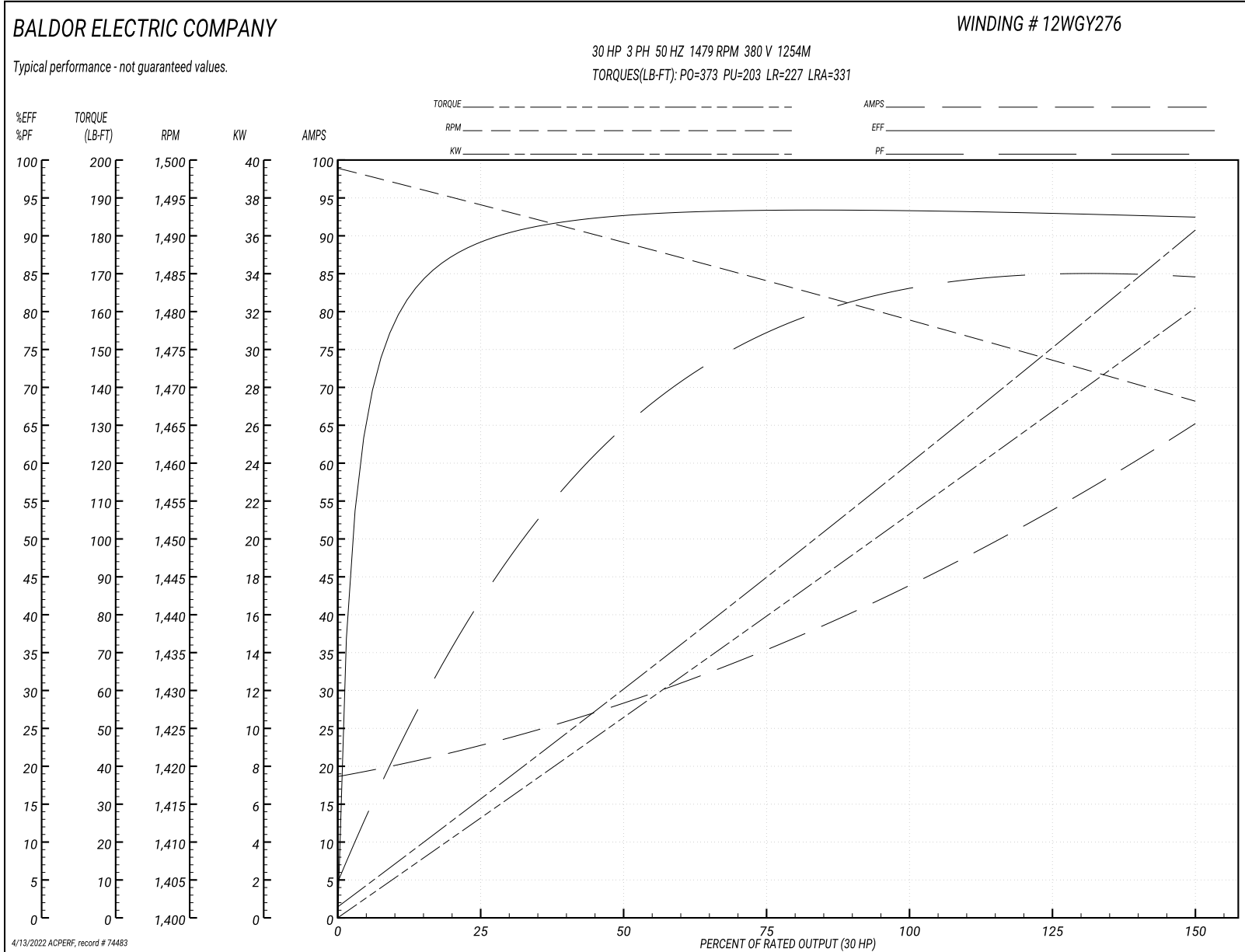
Typical performance - not guaranteed values

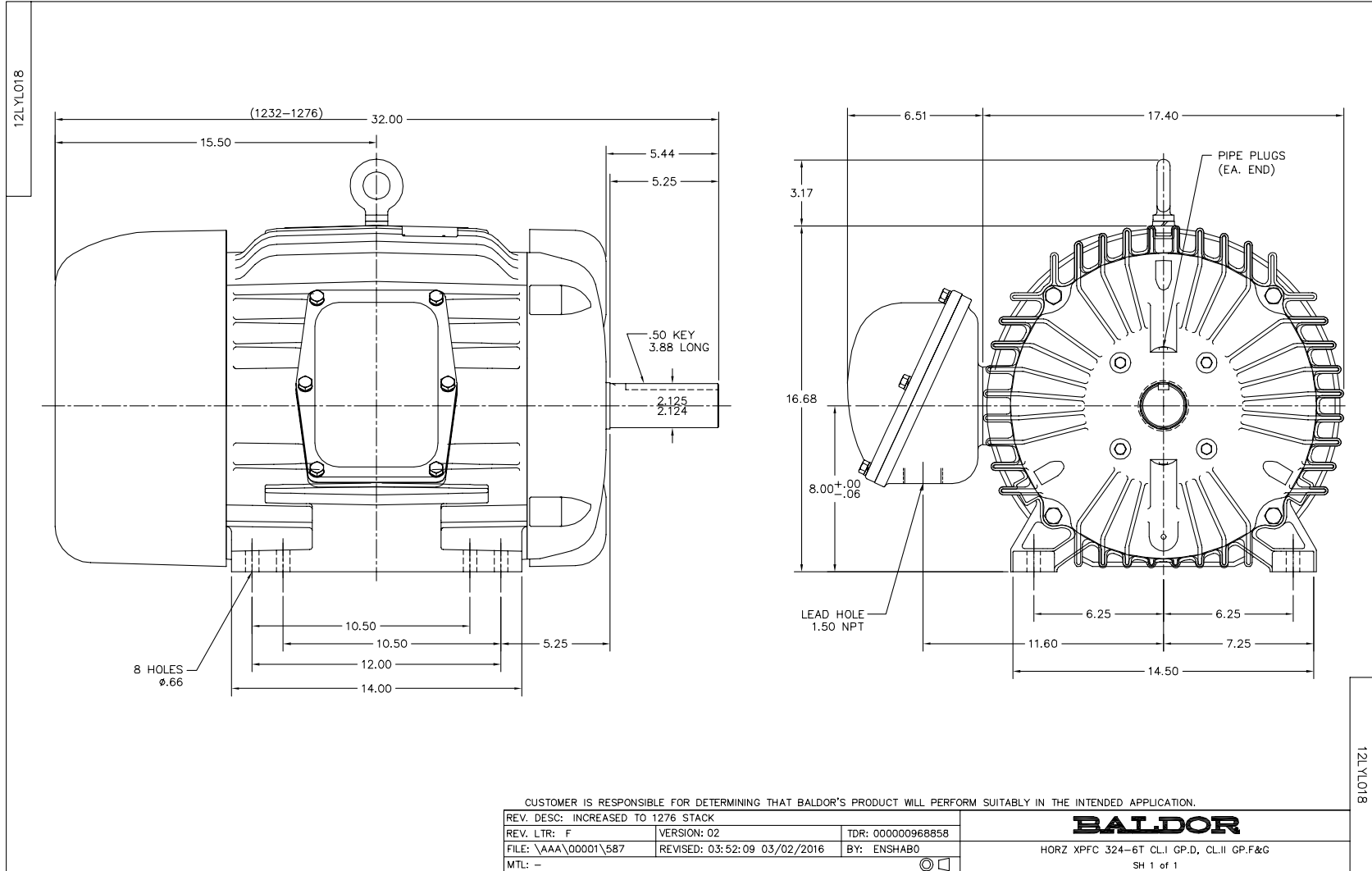
Winding: 12WGY276-R040		Type: 1254M		Enclosure: XPFC	
Nameplate Data			380 V, 50 Hz: High Voltage Connection		
Rated Output (HP)	40//30		Full Load Torque	106 LB-FT	
Volts	230/460//190/380		Start Configuration	direct on line	
Full Load Amps	96/48//90/45		Breakdown Torque	373 LB-FT	
R.P.M.	1775//1480		Pull-up Torque	203 LB-FT	
Hz	60//50	Phase	3	Locked-rotor Torque	227 LB-FT
NEMA Design Code	A	KVA Code	H	Starting Current	331 A
Service Factor (S.F.)	1		No-load Current	19.39 A	
NEMA Nom. Eff.	94.1	Power Factor	82	Line-line Res. @ 25°C	0.145 Ω
Rating - Duty	40C AMB-CONT		Temp. Rise @ Rated Load	47°C	
S.F. Amps			Temp. Rise @ S.F. Load	57°C	
			Locked-rotor Power Factor	30.4	
			Rotor inertia	7.19 LB-FT ²	

Load Characteristics 380 V, 50 Hz, 30 HP

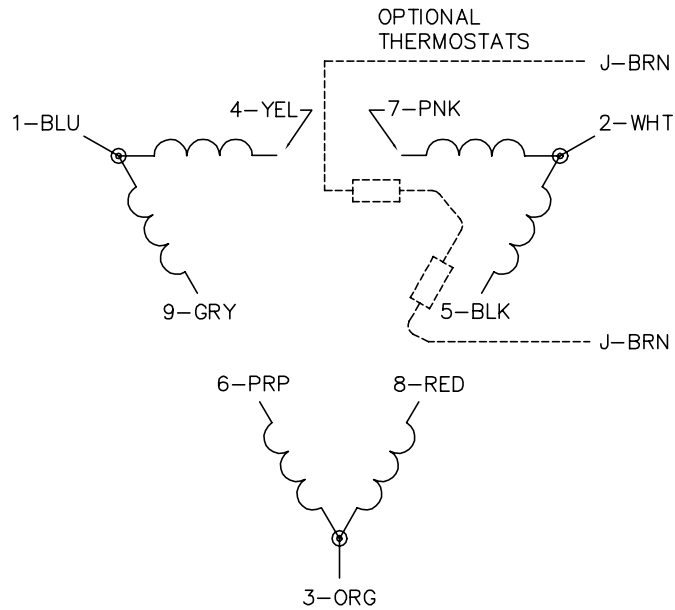
% of Rated Load	25	50	75	100	125	150
Power Factor	44	66	77	82	84	85
Efficiency	88.7	92.8	93.7	93.1	92.8	92.5
Speed	1494	1489	1484	1479	1474	1468
Line amperes	21.96	27.73	35.61	44.25	54.18	64.6

Performance Graph at 380V, 50Hz, 30.0HP Typical performance - Not guaranteed values





CD0180



LOW VOLTAGE
(2D)



HIGH VOLTAGE
(1D)



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.

CD0180

REV. DESC: ADD CLASS CONN00000007		
REV. LTR: D	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\148	REVISED: 10:25:29 02/19/2019	BY: ENBRIRO
MTL: -	© □	

BALDOR - RELIANCE®

3PH, DV, 9 LEADS, DELTA CONNECTION

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