

BALDOR® • RELIANCE 

Product Information Packet

XM32422T

40//30HP,3540//2950RPM,3PH,60//50HZ,324T

Part Detail							
Revision:	-	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	12WGY584	CD Diagram:	CD0180	Mfg Plant:	
Mech. Spec:		Layout:	12LYG783	Poles:	02	Created Date:	04-29-2021
Base:		Eff. Date:	05-10-2021	Leads:	9#8		

Specs			
Catalog Number:	XM32422T	Drip Cover:	No Drip Cover
Enclosure:	XPFC	Duty Rating:	CONT
Frame:	324TS	Electrically Isolated Bearing:	Not Electrically Isolated
Frame Material:	Iron	Feedback Device:	NO FEEDBACK
Motor Letter Type:	Three Phase	Heater Indicator:	No Heater
Output @ Frequency:	40.000 HP @ 60 HZ	Insulation Class:	F
	30.000 HP @ 50 HZ	Inverter Code:	Inverter Duty
Synchronous Speed @ Frequency:	3600 RPM @ 60 HZ	IP Rating:	NONE
Voltage @ Frequency:	190.0 V @ 50 HZ	KVA Code:	H
	230.0 V @ 60 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:	1252M
XP Division:	Division I	Mounting Arrangement:	F1
Agency Approvals:	CSA	Power Factor:	88
	CSA EEV	Product Family:	Hazardous Location Motor
	UR	Pulley Face Code:	Standard
Auxillary Box:	No Auxillary Box	Rodent Screen:	None

Auxillary Box Lead Termination:	None	Shaft Ground Indicator:	No Shaft Grounding
Base Indicator:	Rigid	Shaft Rotation:	Reversible
Bearing Grease Type:	Polyrex EM (-20F +300F)	Speed Code:	Single Speed
Blower:	None	Motor Standards:	NEMA
Constant Torque Speed Range:	6	Starting Method:	Direct on line
Current @ Voltage:	41.000 A @ 380.0 V	Thermal Device - Bearing:	None
	45.000 A @ 460.0 V	Thermal Device - Winding:	Normally Closed Thermostat
	82.000 A @ 190.0 V	Vibration Sensor Indicator:	No Vibration Sensor
	90.000 A @ 230.0 V	Winding Thermal 1:	None
	98.000 A @ 208.0 V	Winding Thermal 2:	None
Design Code:	A	XP Temp Code:	T3C

Nameplate NP0887XPSLEV									
NO.					CC	010A			
S/N					TEMP CODE	T3C			
SPEC.	12-0000-2141				INV.TYPE	PWM			
CAT.NO.	XM32422T				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	90/45//82/41				MAG CUR	24/12			
RPM	3540//2950				MX RPM	5400			
HZ	60//50	PH	3	CL	F	NOM.EFF.	92.4		
SER.F.	1.00		DES	A	SL HZ	1		WK2	4.07
FRAME	324TS		RATING	40C AMB-CONT					
NEMA MG-1 PART 5, IP54									
1.15 SF ON SINE WAVE									

Parts List		
Part Number	Description	Quantity
SA393382	SA 12-0000-2141	1.000 EA
RA384026	RA 12-0000-2141	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	2.000 EA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	4.000 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
10FN3001A02	310 FAN, PLASTIC 2.000 DIA. BORE	1.000 EA
HW2500A25	WOODRUFF KEY USA #1008 #BLOW CARBON STEE	1.000 EA
MJ1000A02	GREASE, POLYREX EM EXXON	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
HW2501H18	KEY, 1/2 SQ X 2.000	1.000 EA

AC Induction Motor Performance Data

Record # 66216

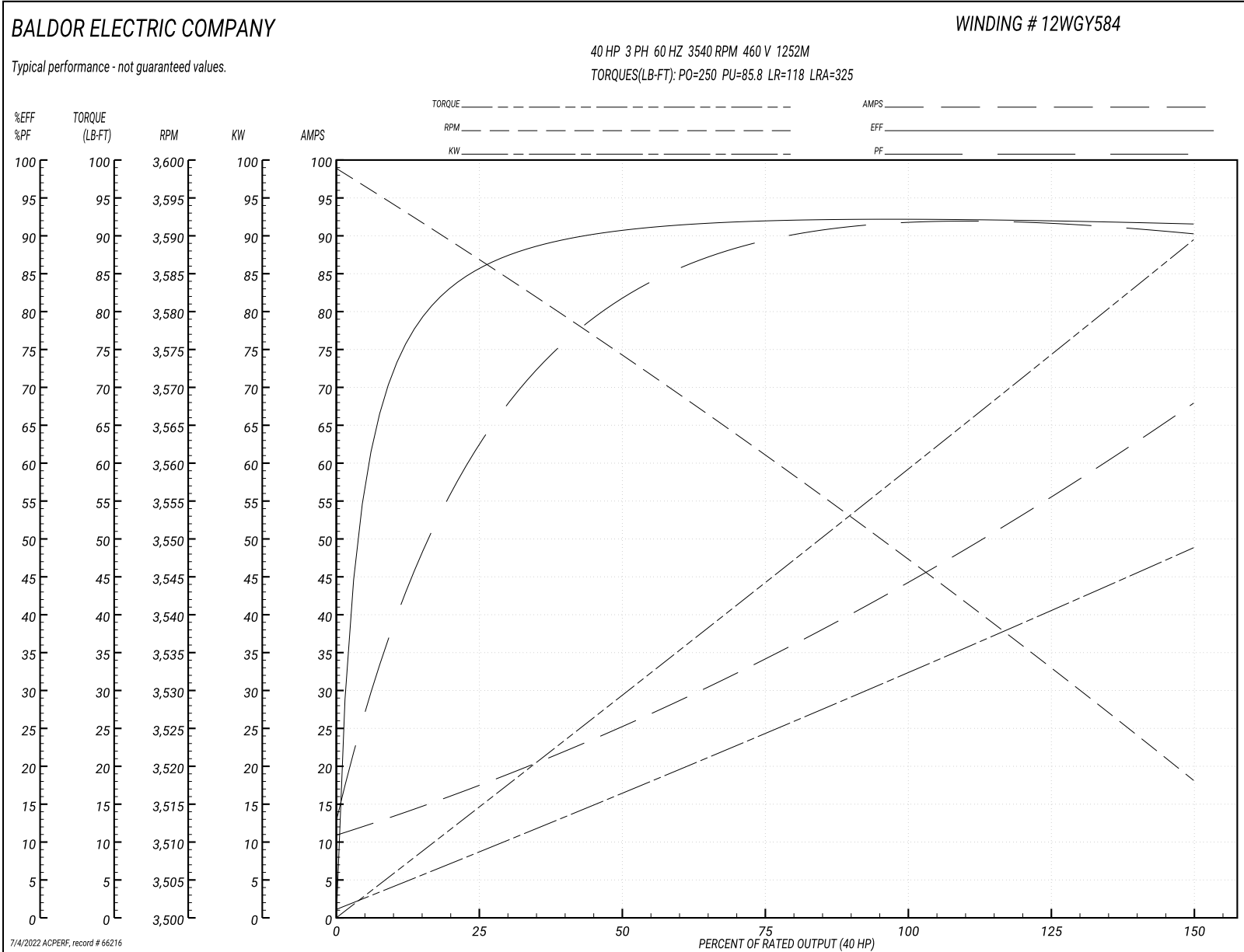
Typical performance - not guaranteed values

Winding: 12WGY584-R006		Type: 1252M		Enclosure: XPFC	
Nameplate Data			460 V, 60 Hz: High Voltage Connection		
Rated Output (HP)	40	Full Load Torque	59.2 LB-FT		
Volts	230/460	Start Configuration	direct on line		
Full Load Amps	90/45	Breakdown Torque	250 LB-FT		
R.P.M.	3540	Pull-up Torque	85.8 LB-FT		
Hz	60 Phase	3	Locked-rotor Torque	118 LB-FT	
NEMA Design Code	A	KVA Code	H	Starting Current	325 A
Service Factor (S.F.)	1		No-load Current	11.7 A	
NEMA Nom. Eff.	92.4	Power Factor	88	Line-line Res. @ 25°C	0.12 Ω
Rating - Duty	40C AMB-CONT		Temp. Rise @ Rated Load	59°C	
			Locked-rotor Power Factor	20.8	
			Rotor inertia	4.07 LB-FT ²	

Load Characteristics 460 V, 60 Hz, 40 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	67	83	89	90	91	91
Efficiency	84.6	90.4	91.9	92.6	92	91.5
Speed	3587	3574	3561	3548	3533	3518
Line amperes	16.4	24.7	34.4	44.7	55.9	67.4

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



AC Induction Motor Performance Data

Record # 75686

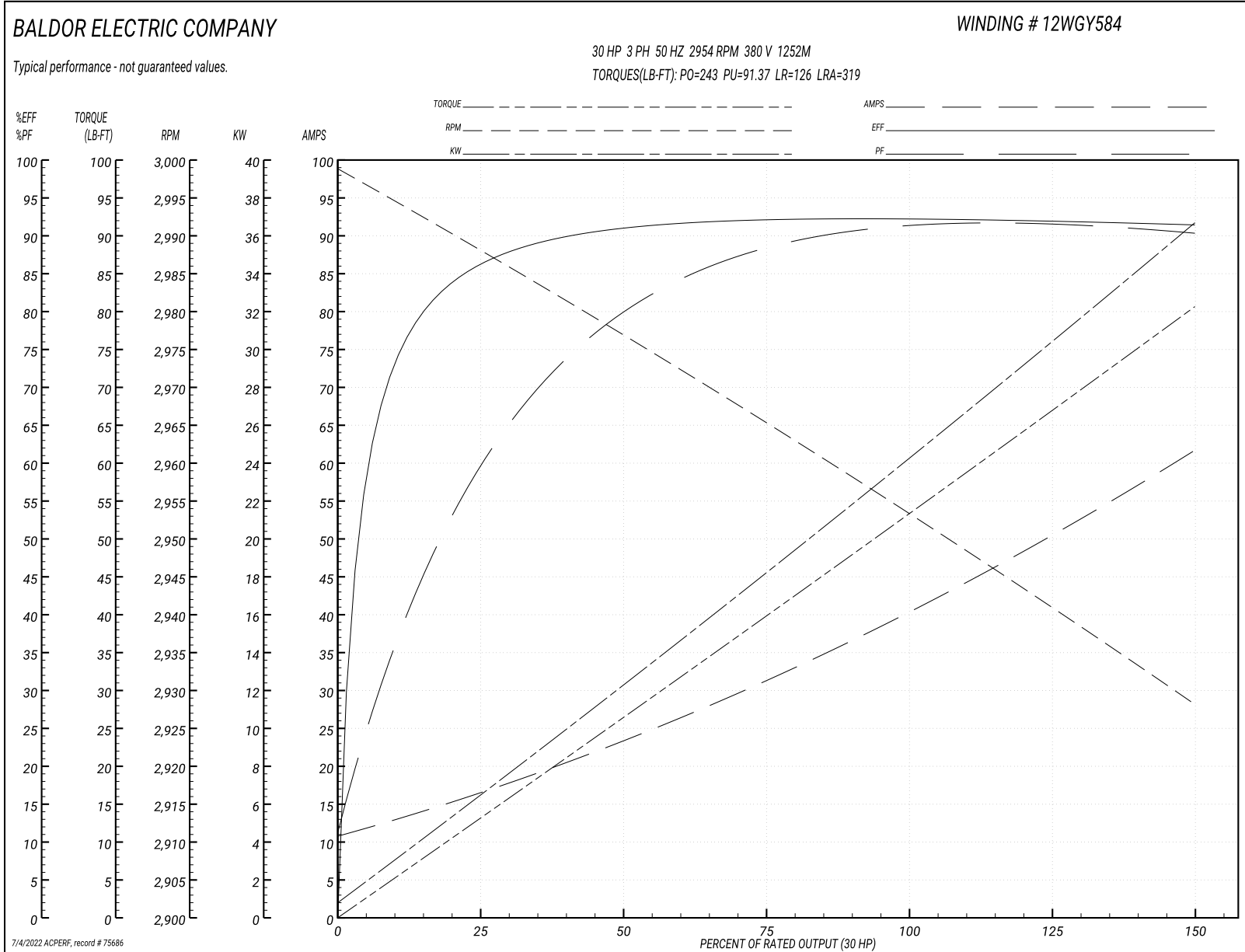
Typical performance - not guaranteed values

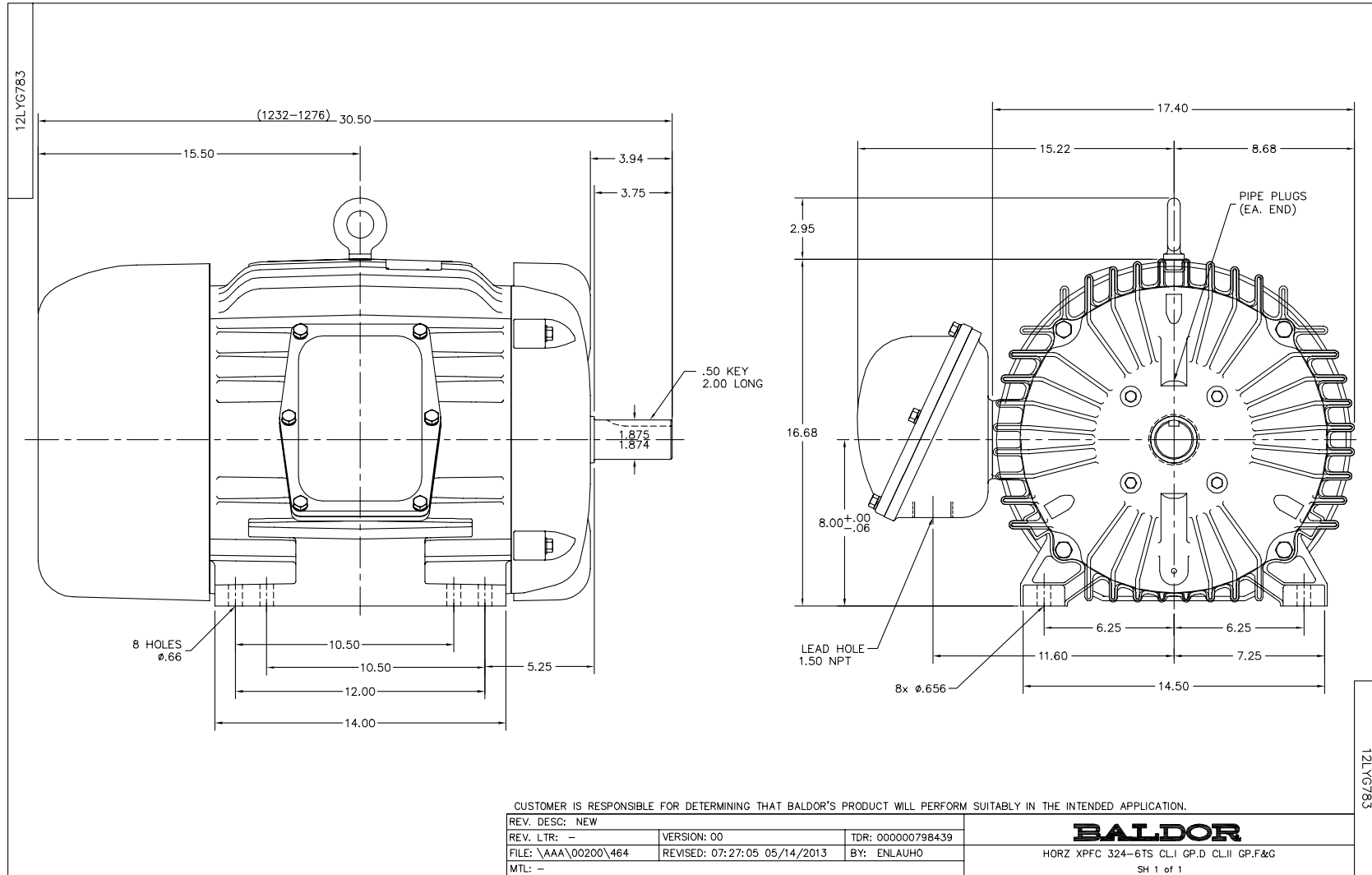
Winding: 12WGY584-R003		Type: 1252M		Enclosure: XPFC	
Nameplate Data			380 V, 50 Hz: High Voltage Connection		
Rated Output (HP)	40//30		Full Load Torque	53.34 LB-FT	
Volts	230/460//190/380		Start Configuration	direct on line	
Full Load Amps	90/45//82/41		Breakdown Torque	243 LB-FT	
R.P.M.	3540//2950		Pull-up Torque	91.37 LB-FT	
Hz	60//50	Phase	3	Locked-rotor Torque	126 LB-FT
NEMA Design Code	A	KVA Code	H	Starting Current	319 A
Service Factor (S.F.)	1		No-load Current	11.51 A	
NEMA Nom. Eff.	92.4	Power Factor	88	Line-line Res. @ 25°C	0.125 Ω
Rating - Duty	40C AMB-CONT		Temp. Rise @ Rated Load	51°C	
S.F. Amps			Temp. Rise @ S.F. Load	62°C	
			Locked-rotor Power Factor	23.5	
			Rotor inertia	4.07 LB-FT ²	

Load Characteristics 380 V, 50 Hz, 30 HP

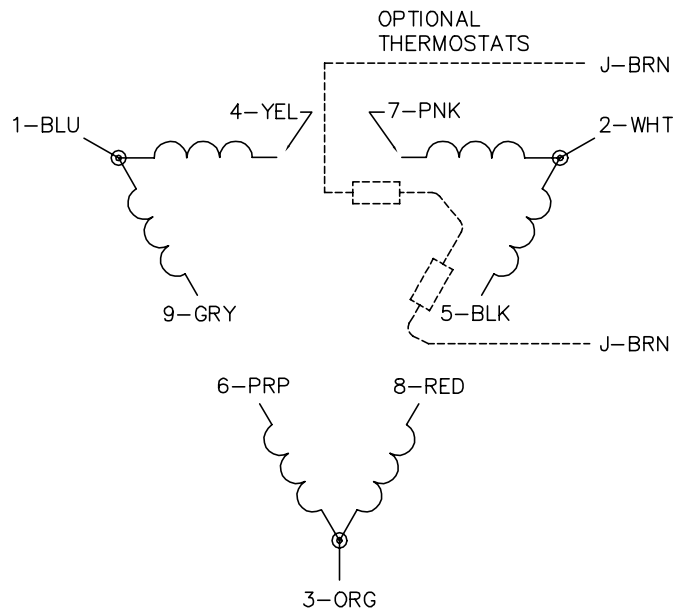
% of Rated Load	25	50	75	100	125	150
Power Factor	64	82	88	90	91	91
Efficiency	85.1	90.6	92	92.6	91.9	91.3
Speed	2988	2977	2965	2954	2941	2928
Line amperes	15.53	22.84	31.5	40.78	50.89	61.21

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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