ABB BALDOR RELIANCE

Customer information packet

CPX32426T

40HP, 3540//2950RPM, 3PH, 60HZ, 324TSY, XPFC,
Class - CLI GP C,D; CLII GP E,F,G
Division - Division I

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Specifications

Enclosure	XPFC
Frame	324TSY
Frame Material	Iron
Frequency	50.00 Hz
	60.00 Hz
Haz Area Class and Group	CLI GP C,D; CLII GP E,F,G
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	30.000 HP @ 50 HZ
	40.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	380.0 V @ 50 HZ
	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
	190.0 V @ 50 HZ
Agency Approvals	CSA EEV
	UL
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Constant Torque Speed Range	6
Current @ Voltage	98.000 A @ 208.0 V
	90.000 A @ 230.0 V
	82.000 A @ 190.0 V
	45.000 A @ 460.0 V
	41.000 A @ 380.0 V
Design Code	A
Drip Cover	No Drip Cover

Part Detail

Revision	G
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	12WGY584
Layout	12LY-000-226
Eff. date	11-05-2024
CD Diagram	CD0180
Poles	02
Leads	9#8
Proprietary	False
Created date	05-21-2019

Duty Rating	CONT
Efficiency @ 100% Load	92.4 %
Electrically Isolated Bearing	Not Electrically Isolated
Enclosure Modification	Severe Duty Features
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	41.0 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	IP55
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	5400 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1252M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	30.50 IN
Power Factor	88
Product Family	Chemical Process Features
Pulley Face Code	Standard
Rodent Screen	None
RoHS Status	ROHS NON-COMPLIANT
Service Factor	1.00
Shaft Diameter	1.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	3540 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None

Thermal Device - Winding	Normally Closed Thermostat
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP2033XPSLEV											
NO.				**CC**	010A						
S/N				**TEMP CODE**	T3C						
SPEC.	12-0000-0651			**INV.TYPE**	PWM						
CAT.NO.	CPX32426T			**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	324TSY	**RATING**	40C AMB-CONT								
BLANK	55C AMB @ 1.00 SF, 60C RISE										
	1.15SF ON SINEWAVE				NEMA MG-1 PT.5,IP55						

Parts List

Part number	Description	Quantity
SA369782	SA 12-0000-0651	1.000 ea
RA359380	RA 12-0000-0651	1.000 ea
LC0181	CONNECTION LABEL	1.000 ea
NP2033XPSLEV	SS XP INV UL CSA-EEV CC CL-I GP-C&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 (2500 bx)11/25	1.000 ea
LB1081C	ALUM XP CAUTION LABEL (COL PLANT ONLY-	1.000 ea
14PA2000	PKGP, CTN ID 42X34X25, STD BASE	1.000 ea
10XN3816E08	3/8-16 X .50 HEX HD SCREW BRONZE	1.000 ea
HW1001B38	WASHER, 3/8 SPLT LK, CS, .678OD X .382ID	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
37FN3002C04	EXFN, PLASTIC, 6.00 OD, 2.003 ID	1.000 ea
HW2500A25	WOODRUFF KEY USA #1008 #BLOW CARBON STEE	1.000 ea
51XB1214A20	12-14X1.25 HXWSSLD SERTYB	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.200 lb
HA4017A08	.125 X 3.50 LGTH GREASER EXTEN.	1.000 ea
10XN5013K44	1/2-13 X 2.75 HEX HD GRADE 5	4.000 ea
HW1001A50	LOCKWASHER 1/2, ZINC PLT,.879 OD, .509 I	4.000 ea
HA2009A50	SLINGER FOR GROUP E MTRS - 311 BRG.	1.000 ea
80XN0632J10	6-32 X 5/8 SET SCREW, HEX SOC, CUP PT	2.000 ea
HA2009A49	SLINGER FOR GROUP E MTRS - 312 BRG.	1.000 ea
HW5100A13	W4627-047 WVY WSHER	1.000 ea
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 ea
HW4500A21	1618BALEMITE FITTING 825 UNIVERSAL	1.000 ea
HW4500A20	1/8NPT SL PIPE PLUG	1.000 ea
HW4505A02	BREATHER/DRAIN-EXP PROOF-.250-18 PTF AIS	1.000 ea
HW3023E06	.125 X .625 SPIRAL SPRING PIN	1.000 ea
12FH1001A07LP5	FAN COVER, MACH W/EPOXY PRIMER & PAINT	1.000 ea
12EP1706A09P	EP, MACH. XPFC 312 BRG.	1.000 ea

HW1001A50	LOCKWASHER 1/2, ZINC PLT,.879 OD, .509 I	4.000 ea
10XN5013K44	1/2-13 X 2.75 HEX HD GRADE 5	4.000 ea
80XN0632J10	6-32 X 5/8 SET SCREW, HEX SOC, CUP PT	2.000 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
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 ea
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 ea
HW4500A20	1/8NPT SL PIPE PLUG	1.000 ea
HW4505A02	BREATHER/DRAIN-EXP PROOF-.250-18 PTF AIS	1.000 ea
HW3023E06	.125 X .625 SPIRAL SPRING PIN	1.000 ea
12EP1705A23LP5	ENDPLATE, MACH.312-EXPL.PROOF 311 BRG.-G	1.000 ea
12CB1003A01P	KOBX,MACH 2.00 NPT GROUP C MTRS,EPOXY PR	1.000 ea
10XN3118K24	5/16-18 X 1.50" HEX HD, GRADE 5	4.000 ea
WD1000B19	TERMINAL BURNDY L250HP	1.000 ea
10XN3816K08	3/8-16 X .50 HEX HD CAP SCREW GRADE 5	1.000 ea
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	1.000 ea
12CB1502A01P	CONDUIT BOX LID MACH. GROUP C MTRS	1.000 ea
84XN5013J32	SOCKET HD.CAP SCR,1/2-13 X 2"LG,ALLOY ST	10.000 ea
HW1001A50	LOCKWASHER 1/2, ZINC PLT,.879 OD, .509 I	10.000 ea
MG1025G29	WILKOFAST, 789.229, DARK CHARCOAL GRAY	0.125 ga
HW2501H18	KEY, 1/2 SQ X 2.000	1.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
MJ5001A27	32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL	0.001 qt

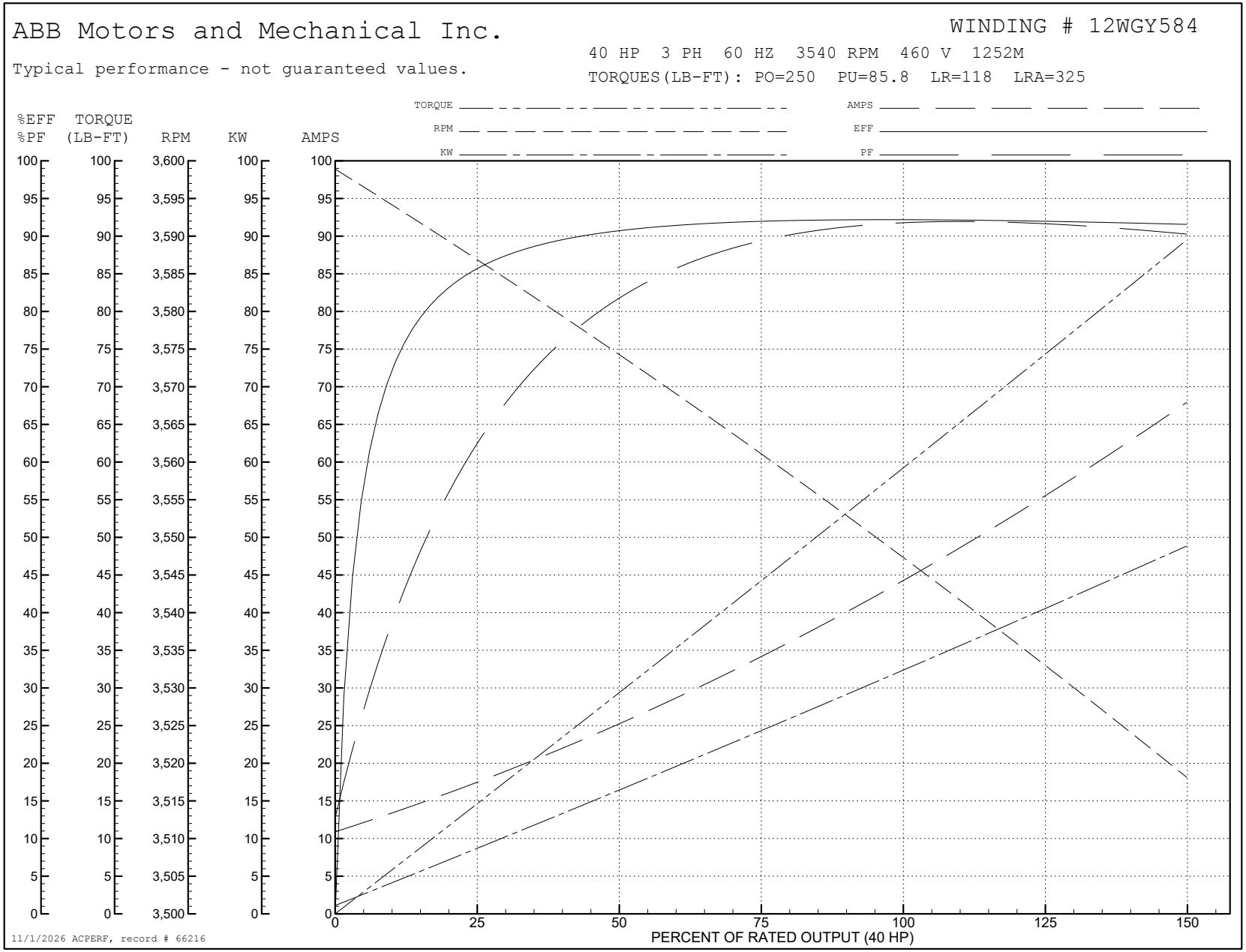
AC Induction Motor Performance Data
Record # 66216
Typical performance - not guaranteed values

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. @ 25ºC**	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-FT2

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


ABB Motors and Mechanical Inc.
WINDING # 12WGY584
40 HP 3 PH 60 HZ 3540 RPM 460 V 1252M
TORQUES(LB-FT): PO=250 PU=85.8 LR=118 LRA=325
Typical performance - not guaranteed values.
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (40 HP)
11/1/2026 ACPERF, record # 66216

AC Induction Motor Performance Data
Record # 75686
Typical performance - not guaranteed values

Winding: 12WGY584-R003	**Type:** 1252M	**Enclosure:** XPFC

Nameplate Data			
Rated Output (HP)			40//30
Volts			230/460//190/380
Full Load Amps			90/45//82/41
R.P.M.			3540//2950
Hz	60//50	**Phase**	3
NEMA Design Code	A	**KVA Code**	H
Service Factor (S.F.)			1
NEMA Nom. Eff.	92.4	**Power Factor**	88
Rating - Duty			40C AMB-CONT
S.F. Amps			

380 V, 50 Hz: High Voltage Connection	
Full Load Torque	53.34 LB-FT
Start Configuration	direct on line
Breakdown Torque	243 LB-FT
Pull-up Torque	91.37 LB-FT
Locked-rotor Torque	126 LB-FT
Starting Current	319 A
No-load Current	11.51 A
Line-line Res. @ 25ºC	0.125 Ω
Temp. Rise @ Rated Load	51°C
Temp. Rise @ S.F. Load	62°C
Locked-rotor Power Factor	23.5
Rotor inertia	4.07 LB-FT2

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

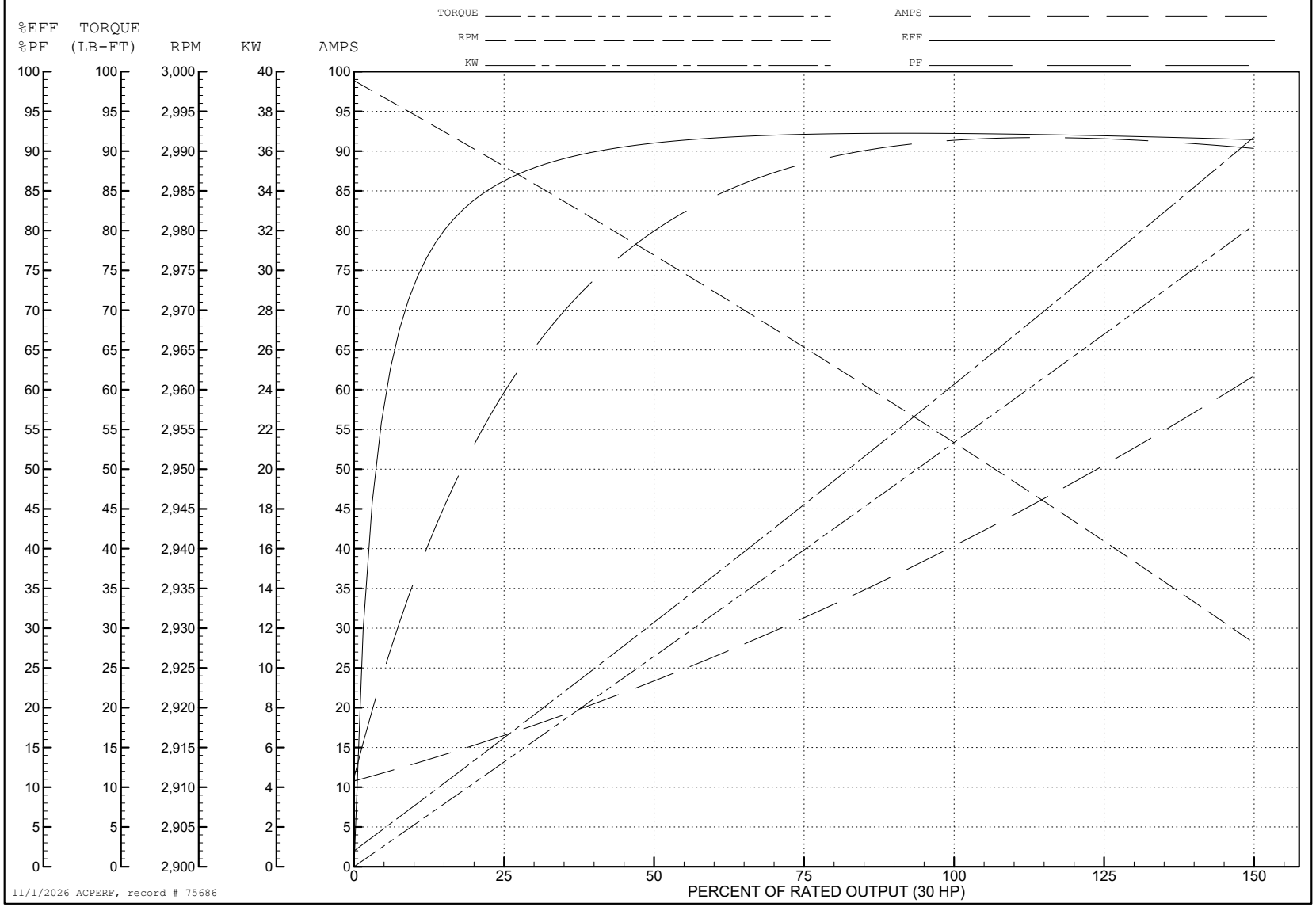
ABB Motors and Mechanical Inc.

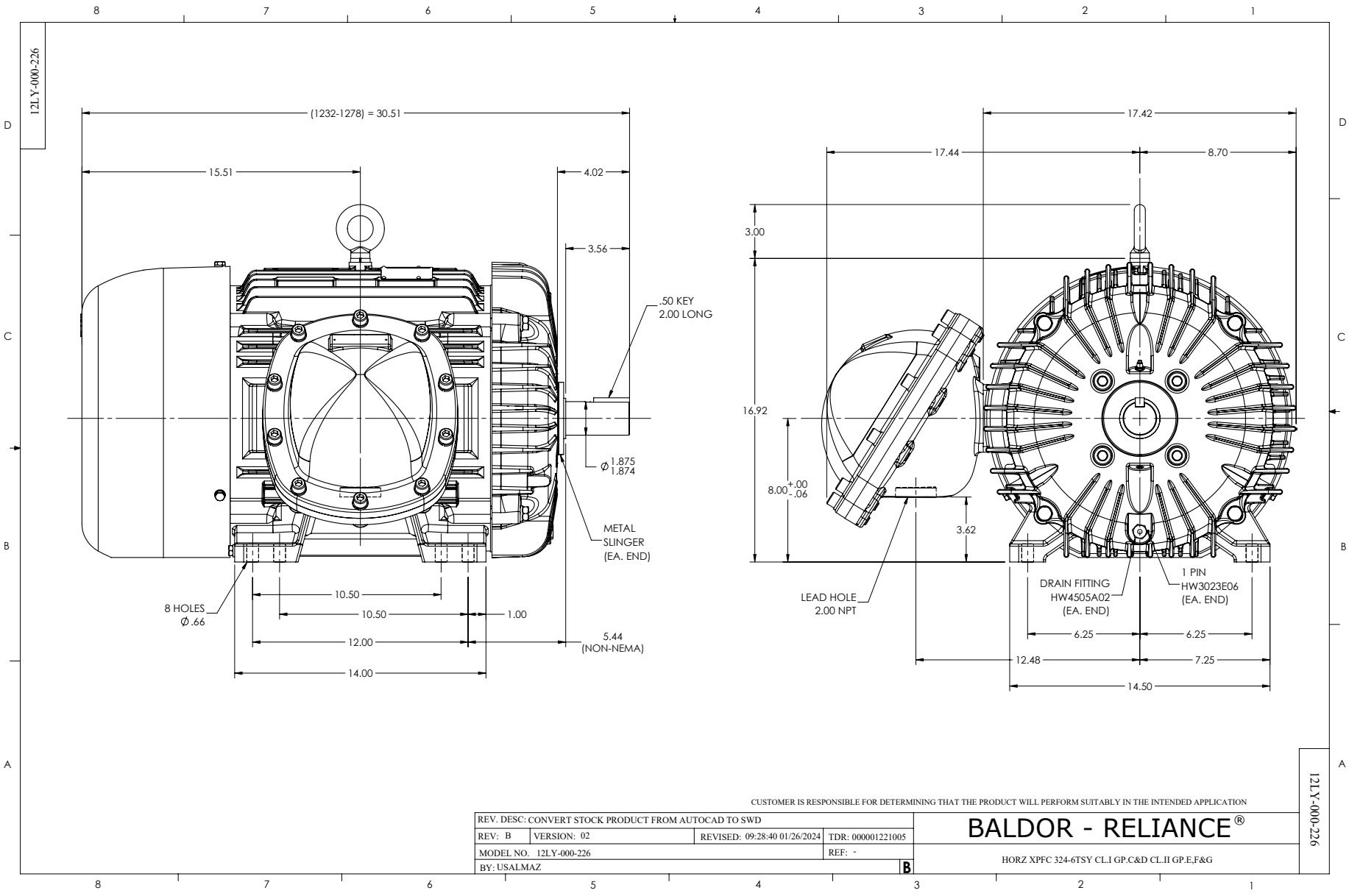
WINDING # 12WGY584

30 HP 3 PH 50 HZ 2954 RPM 380 V 1252M

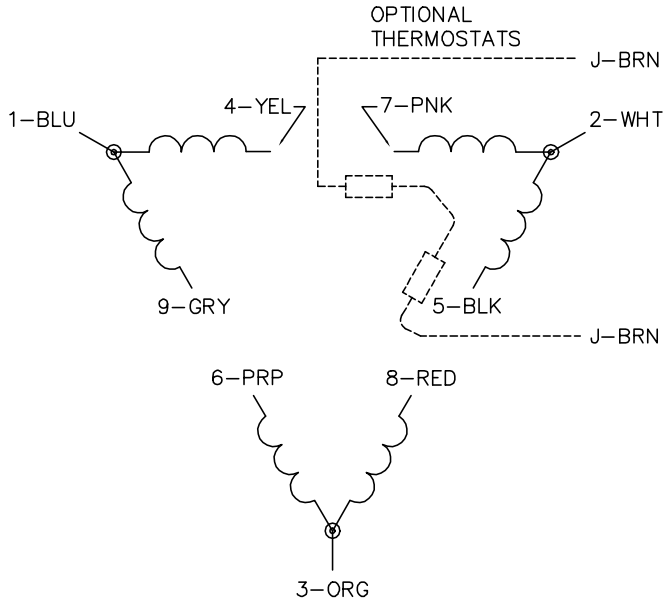
Typical performance - not guaranteed values.

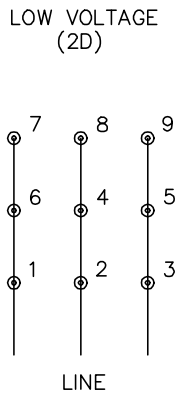
TORQUES(LB-FT): PO=243 PU=91.37 LR=126 LRA=319

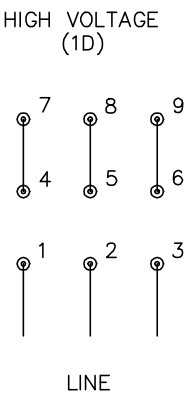



12LY-000-226
(1232-1278) = 30.51
15.51
4.02
3.56
.50 KEY
2.00 LONG
Ø 1.875
1.874
METAL
SLINGER
(EA. END)
8 HOLES
Ø .66
10.50
10.50
1.00
12.00
5.44
(NON-NEMA)
14.00
17.42
17.44
8.70
3.00
16.92
8.00 +.00 -.06
3.62
LEAD HOLE
2.00 NPT
DRAIN FITTING
HW4505A02
(EA. END)
1 PIN
HW3023E06
(EA. END)
6.25
6.25
12.48
7.25
14.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT STOCK PRODUCT FROM AUTOCAD TO SWD
REV: B
VERSION: 02
REVISED: 09:28:40 01/26/2024
TDR: 000001221005
MODEL NO. 12LY-000-226
REF: -
BY: USALMAZ
B
BALDOR - RELIANCE®
HORZ XPFC 324-6TSY CL.I GP.C&D CL.II GP.E,F&G
12LY-000-226

CD0180







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: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

3PH, DV, 9 LEADS, DELTA CONNECTION

SH 1 of 1