ABB BALDOR RELIANCE

Customer information packet

CDRX32364T

30HP, 1180//980RPM, 3PH, 60/50HZ, 326TC, XPFC
Class - CLI GP C,D
Division - Division I

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Specifications

Enclosure	XPFC
Frame	326TC
Frame Material	Iron
Frequency	50.00 Hz
	60.00 Hz
Haz Area Class and Group	CLI GP C,D
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	25.000 HP @ 50 HZ
	30.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 50 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	380.0 V @ 50 HZ
	230.0 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	78.000 A @ 230.0 V
	39.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.0 %
Electrically Isolated Bearing	Not Electrically Isolated

Part Detail

Revision	H
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	12WGY812
Layout	12LYT021
Eff. date	12-10-2024
CD Diagram	CD0005
Poles	06
Leads	9#8
Proprietary	False
Created date	06-04-2019

Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	39.0 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	NONE
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	1800 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1264M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	32.00 IN
Power Factor	78
Product Family	Hazardous Location Motor
Pulley Face Code	C-Face
Rodent Screen	None
RoHS Status	ROHS NON-COMPLIANT
Service Factor	1.00
Shaft Diameter	2.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	1180 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

NP1401XPSLEV											
NO.				**CC**	010A						
S/N				**TEMP CODE**	T3C						
SPEC.	12-0000-0744			**INV.TYPE**	PWM						
CAT.NO.	CDRX32364T			**C HP FR**	60	**C HP TO**	90				
HP	30//25			**CT HZ FROM**	6			**CT HZ TO**	60		
VOLTS	230/460//190/380			**VT HZ FROM**	6			**VT HZ TO**	60		
AMPS	78/39		**MAG CUR**	34.4/17.2							
RPM	1180//980		**MX RPM**	1800							
HZ	60//50	**PH**	3	**CL**	F	**NOM.EFF.**	93				
SER.F.	1.00	**DES**	A	**SL HZ**	1	**WK2**	12.2				
FRAME	326TC	**RATING**	40C AMB-CONT								
	55C AMB @ 1.0 SF, 60C RISE										
	1.15SF ON SINEWAVE			NEMA MG-1 PT.5,IP55							

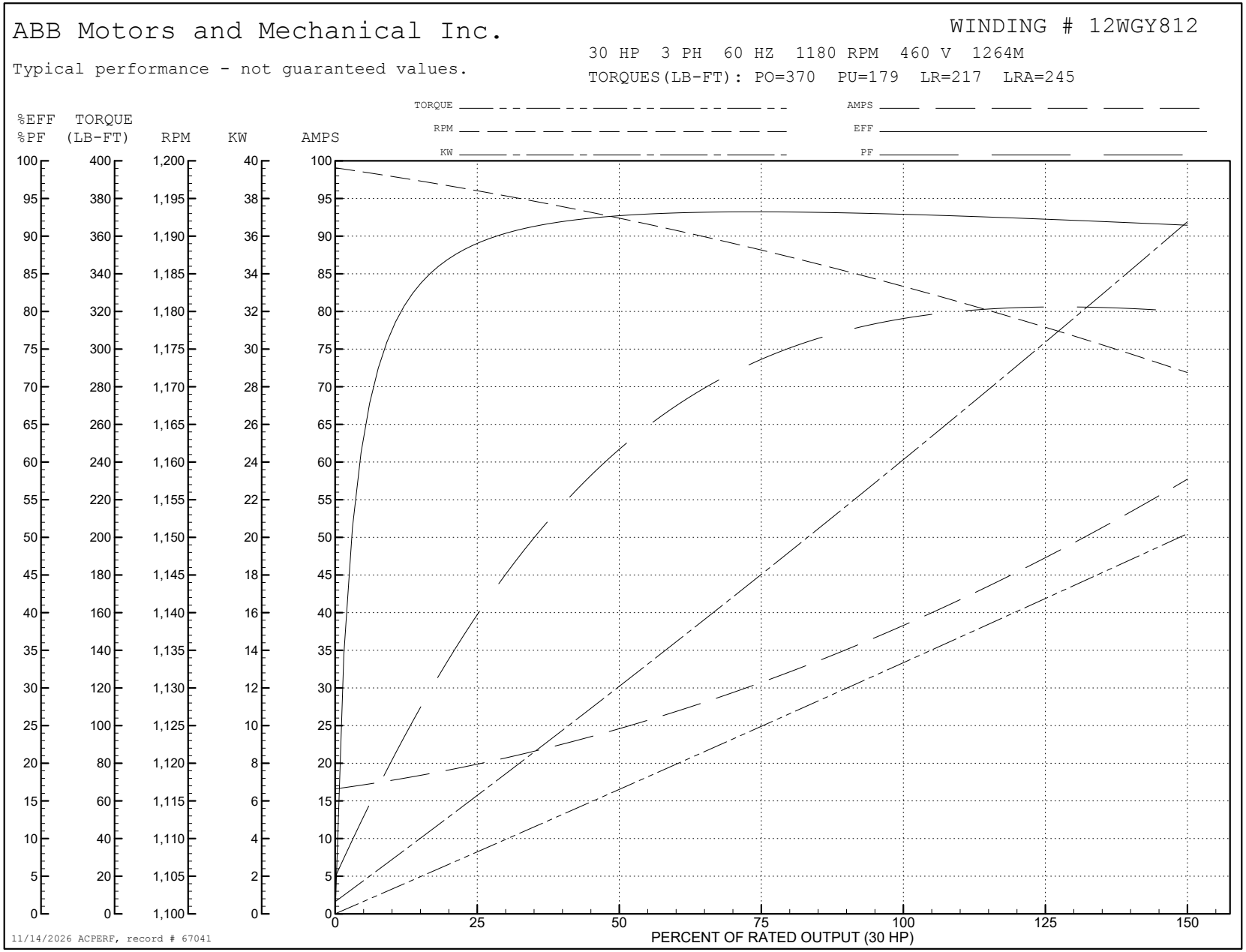
AC Induction Motor Performance Data
Record # 67041
Typical performance - not guaranteed values

Winding: 12WGY812-R015	**Type:** 1264M	**Enclosure:** XPFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			30	**Full Load Torque**	133 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			78/39	**Breakdown Torque**	370 LB-FT
R.P.M.			1180	**Pull-up Torque**	179 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	217 LB-FT
NEMA Design Code	A	**KVA Code**	H	**Starting Current**	245 A
Service Factor (S.F.)			1	**No-load Current**	17.2 A
NEMA Nom. Eff.	93	**Power Factor**	78	**Line-line Res. @ 25ºC**	0.22799 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	56°C
				Locked-rotor Power Factor	27.6

Load Characteristics 460 V, 60 Hz, 30 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	42	63	73	78	80	80
Efficiency	89	92.7	93.4	93.1	92.4	91.4
Speed	1196.5	1191.9	1188.3	1183.2	1178.2	1171.8
Line amperes	19.2	24.1	31	38.7	47.5	57.3


ABB Motors and Mechanical Inc.
WINDING # 12WGY812
30 HP 3 PH 60 HZ 1180 RPM 460 V 1264M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=370 PU=179 LR=217 LRA=245
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (30 HP)
11/14/2026 ACPERF, record # 67041

AC Induction Motor Performance Data
Record # 75682
Typical performance - not guaranteed values

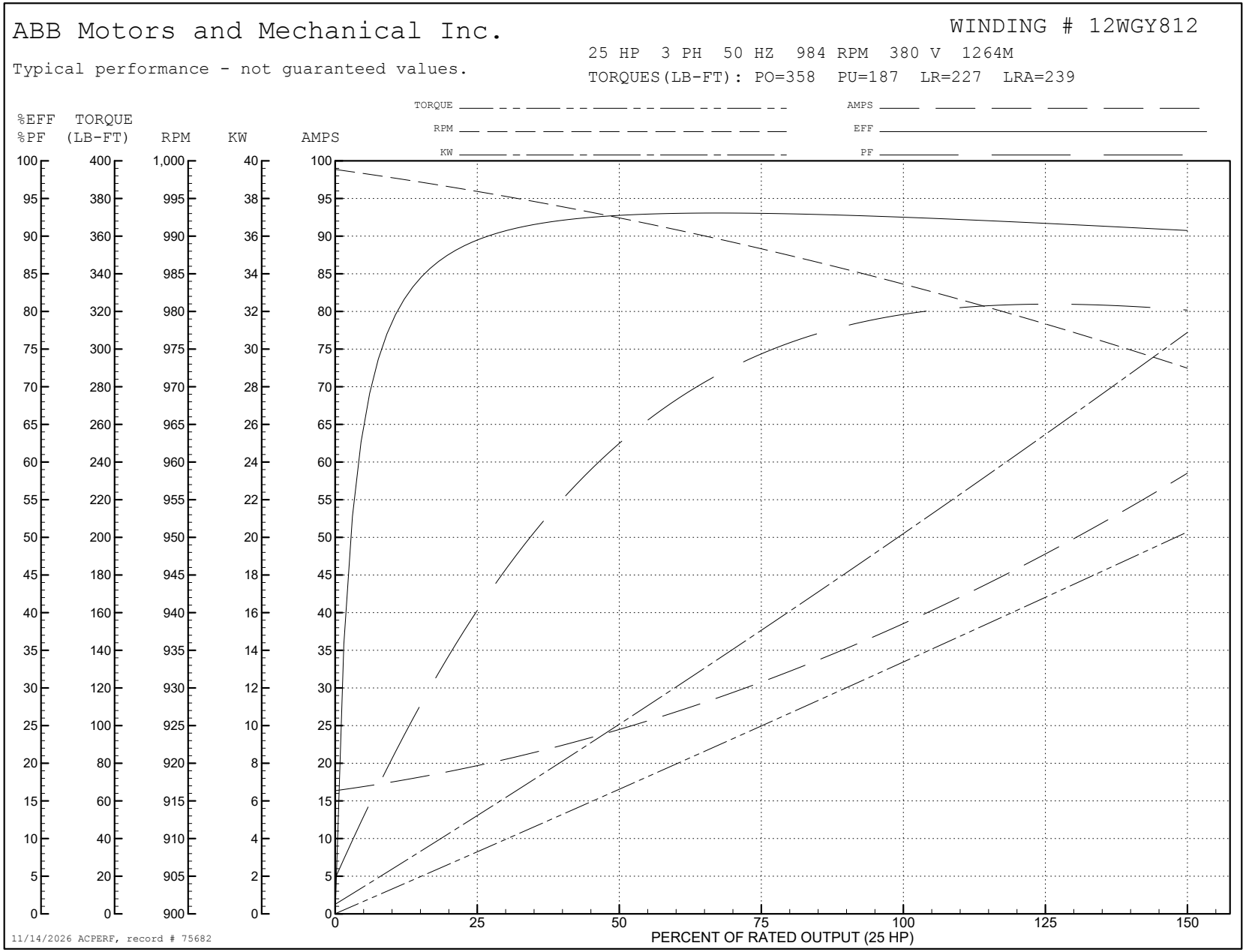
Winding: 12WGY812-R018	**Type:** 1264M	**Enclosure:** XPFC

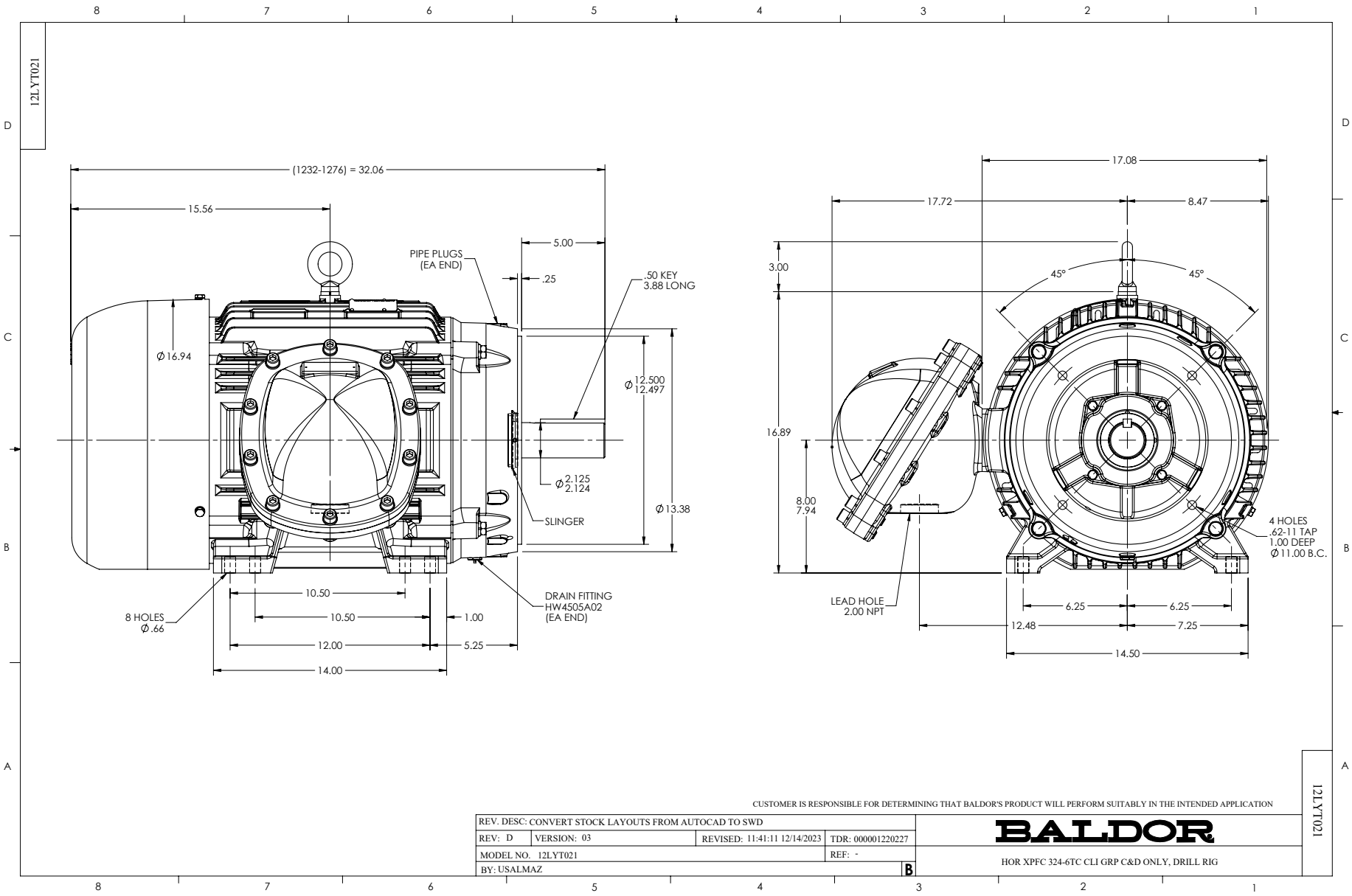
Nameplate Data			
Rated Output (HP)			30//25
Volts			230/460//190/380
Full Load Amps			78/39
R.P.M.			1180//980
Hz	60//50	**Phase**	3
NEMA Design Code	A	**KVA Code**	H
Service Factor (S.F.)			1
NEMA Nom. Eff.	93	**Power Factor**	78
Rating - Duty			40C AMB-CONT
S.F. Amps			

380 V, 50 Hz: High Voltage Connection	
Full Load Torque	133 LB-FT
Start Configuration	direct on line
Breakdown Torque	358 LB-FT
Pull-up Torque	187 LB-FT
Locked-rotor Torque	227 LB-FT
Starting Current	239 A
No-load Current	16.97 A
Line-line Res. @ 25ºC	0.222 Ω
Temp. Rise @ Rated Load	56°C
Temp. Rise @ S.F. Load	69°C
Locked-rotor Power Factor	30.7
Rotor inertia	12.2 LB-FT2

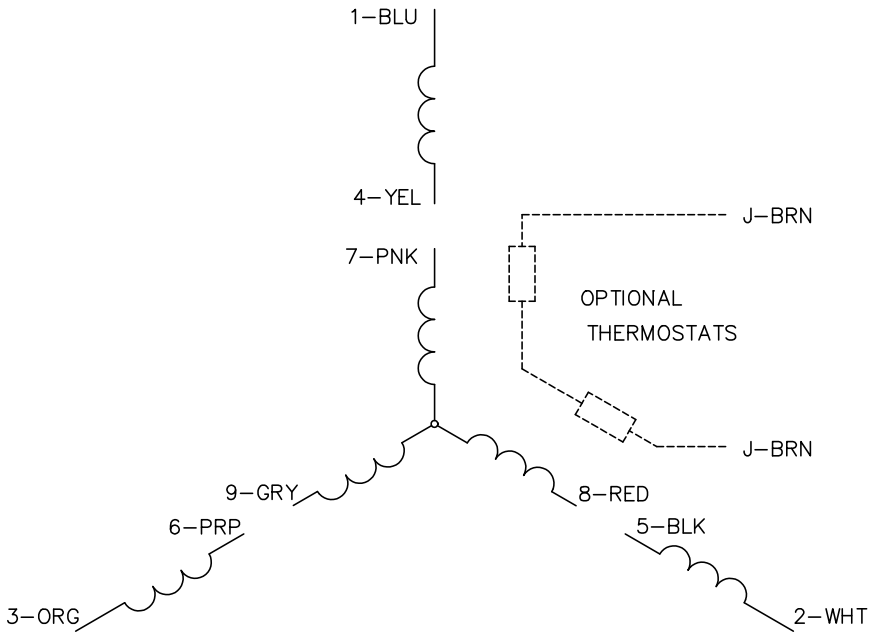
Load Characteristics 380 V, 50 Hz, 25 HP

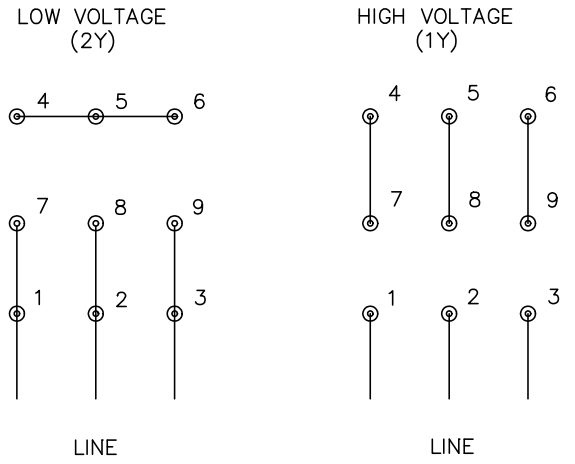
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	42	64	74	79	80	81
Efficiency	89.3	92.6	93.1	92.3	91.9	90.6
Speed	996	992	988	984	979	972
Line amperes	18.98	23.98	31.07	38.94	48.02	58.14


ABB Motors and Mechanical Inc.
WINDING # 12WGY812
25 HP 3 PH 50 HZ 984 RPM 380 V 1264M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=358 PU=187 LR=227 LRA=239
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (25 HP)
11/14/2026 ACPERF, record # 75682


12LYT021
(1232-1276) = 32.06
15.56
5.00
.25
PIPE PLUGS
(EA END)
.50 KEY
3.88 LONG
Ø16.94
Ø12.500
12.497
Ø2.125
2.124
Ø13.38
SLINGER
8 HOLES
Ø.66
10.50
10.50
1.00
12.00
5.25
14.00
DRAIN FITTING
HW4505A02
(EA END)
17.08
17.72
8.47
3.00
45°
45°
16.89
8.00
7.94
4 HOLES
.62-11 TAP
1.00 DEEP
Ø11.00 B.C.
LEAD HOLE
2.00 NPT
6.25
6.25
12.48
7.25
14.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT STOCK LAYOUTS FROM AUTOCAD TO SWD
REV: D
VERSION: 03
REVISED: 11:41:11 12/14/2023
TDR: 000001220227
MODEL NO. 12LYT021
REF: -
BY: USALMAZ
B
BALDOR
HOR XPFC 324-6TC CLI GRP C&D ONLY, DRILL RIG
12LYT021

CD0005





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.

CD0005

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
CD0005		FILE: AAA00005140	MDL: –
		MTL: –	3PH, DV, 9 LEADS