BALDOR • RELIANCE

Customer information packet

CCPX322566T

60M 6P XPFC HOR 324TCY TSTAT CP FEAT INV
Class - CLI GP C,D; CLII GP E,F,G
Division - Division I

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Specifications

Enclosure	XPFC
Frame	324TCY
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	20.000 HP @ 50 HZ
	25.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	190.0 V @ 50 HZ
	460.0 V @ 60 HZ
	380.0 V @ 50 HZ
Agency Approvals	CSA EEV
	UL
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Constant Torque Speed Range	6
Current @ Voltage	69.000 A @ 208.0 V
	63.000 A @ 230.0 V
	62.000 A @ 190.0 V
	32.000 A @ 460.0 V
	31.000 A @ 380.0 V
Design Code	A
Drip Cover	No Drip Cover

Part detail

Revision	G
Type	AC
Mech. spec.	12J224
Base	
Status	PRD/A
Elec. spec.	12WGY116
Layout	12LYJ224
Eff. date	12-04-2024
CD Diagram	CD0180
Poles	06
Leads	9#8
Proprietary	False
Created date	04-18-2019

Duty Rating	CONT
Efficiency @ 100% Load	93.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Enclosure Modification	Severe Duty Features
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	31.0 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	1800 rpm
Motor Lead Quantity/Wire Size	9 @ 8 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	X1260M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	32.00 IN
Power Factor	79
Product Family	Hazardous Location Motor
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
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

Shaft Slinger Indicator	Shaft Slinger
Speed	1180 rpm
	985 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.	12J224Y116G1			**INV.TYPE**	PWM				
CAT.NO.	CCPX322566T			**C HP FR**	60	**C HP TO**	90		
HP	25//20			**CT HZ FROM**	6	**CT HZ TO**	60		
VOLTS	230/460//190/380			**VT HZ FROM**	6	**VT HZ TO**	60		
AMPS	63/32//62/31		**MAG CUR**	28/14					
RPM	1180//985		**MX RPM**	1800					
HZ	60//50	**PH**	3	**CL**	F	**NOM.EFF.**	93		
SER.F.	1.00	**DES**	A	**SL HZ**	1	**WK2**	11.5		
FRAME	324TCY	**RATING**	40C AMB-CONT						
BLANK	55C AMB @ 1.0 SF, 60C RISE								
	1.15SF ON SINEWAVE			NEMA MG-1 PT.5,IP55					

AC Induction Motor Performance Data
Record # 44636
Typical performance - not guaranteed values

Winding: 12WGY116-R013	**Type:** 1260M	**Enclosure:** XPFC

Nameplate Data			**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)		25	**Full Load Torque**	111 LB-FT
Volts		230/460	**Start Configuration**	direct on line
Full Load Amps		63/32	**Breakdown Torque**	308 LB-FT
R.P.M.		1180	**Pull-up Torque**	117 LB-FT
Hz	60 **Phase**	3	**Locked-rotor Torque**	171 LB-FT
NEMA Design Code	A **KVA Code**	H	**Starting Current**	198 A
Service Factor (S.F.)		1	**No-load Current**	13.8 A
NEMA Nom. Eff.	93 **Power Factor**	79	**Line-line Res. @ 25ºC**	0.27033 Ω
Rating - Duty		40C AMB-CONT	**Temp. Rise @ Rated Load**	46°C
			Locked-rotor Power Factor	28
			Rotor inertia	11.5 LB-FT2

Load Characteristics 460 V, 60 Hz, 25 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	43	65	75	79	81	81
Efficiency	89.1	92.8	93.5	93.2	92.6	91.5
Speed	1195.4	1191.8	1188.2	1183.9	1179.3	1172.9
Line amperes	15.6	19.7	25.4	31.9	39.2	49.1

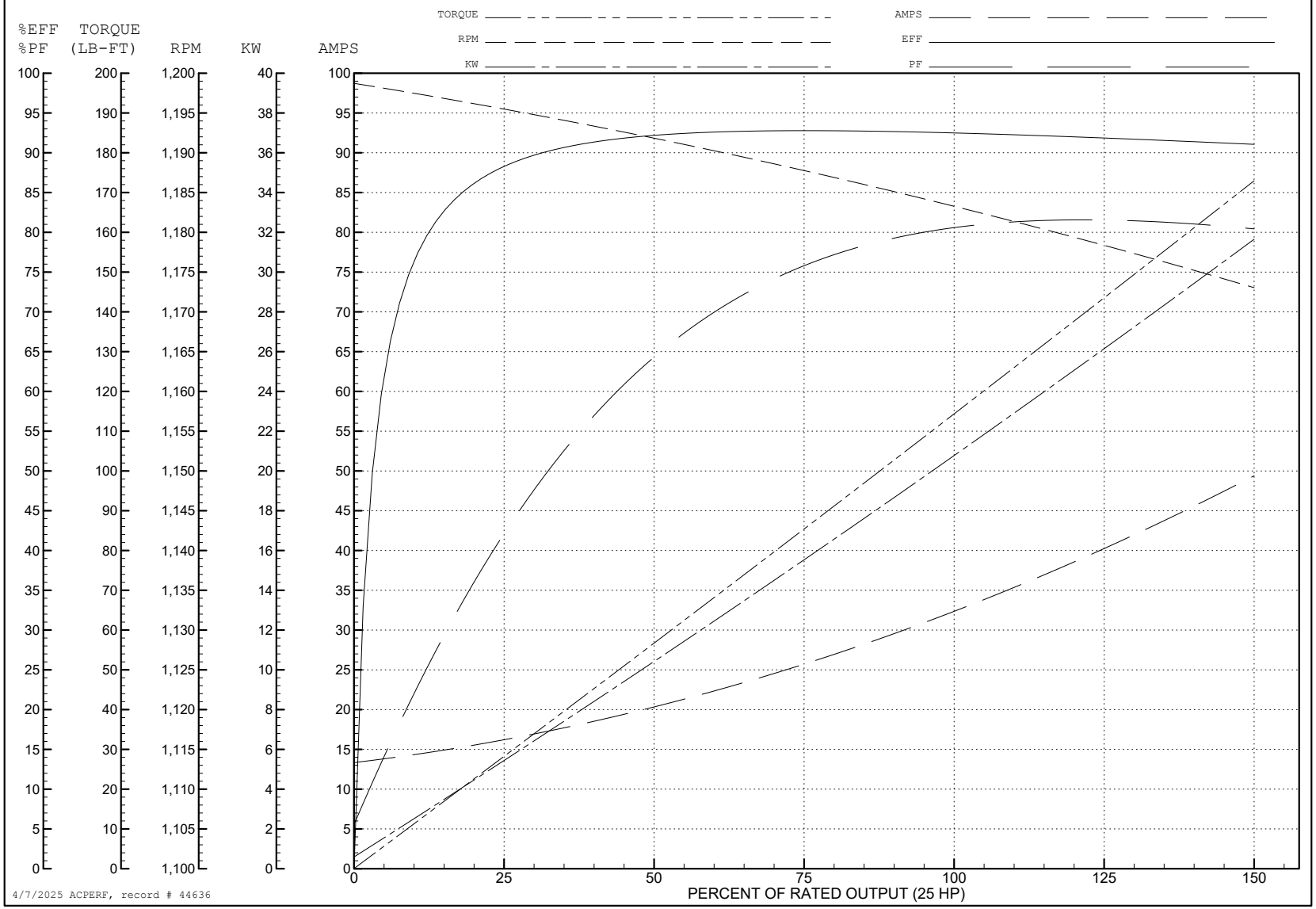
ABB Motors and Mechanical Inc.

WINDING # 12WGY116

25 HP 3 PH 60 HZ 1180 RPM 460 V 1260M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=308 PU=117 LR=171 LRA=198



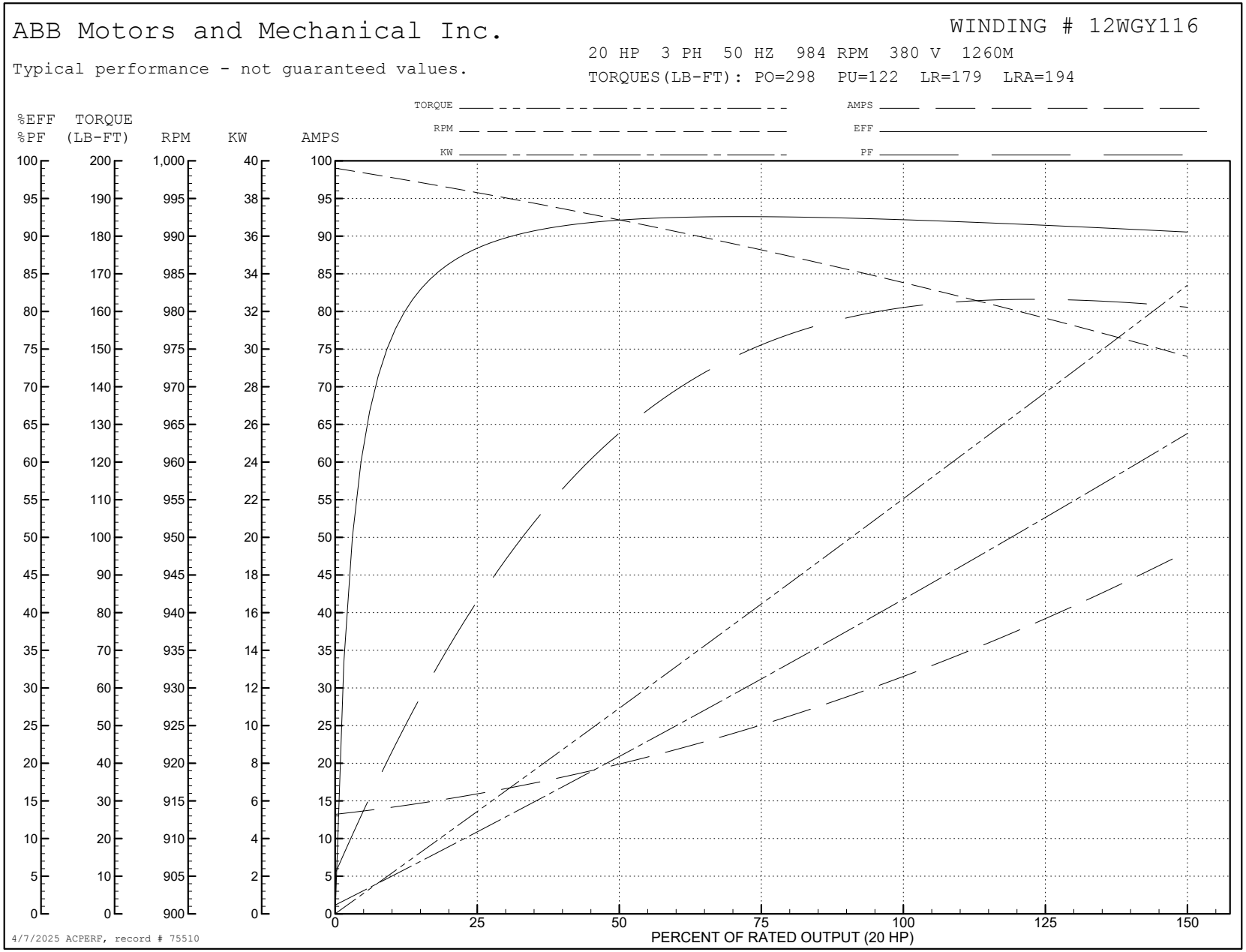
AC Induction Motor Performance Data
Record # 75510
Typical performance - not guaranteed values

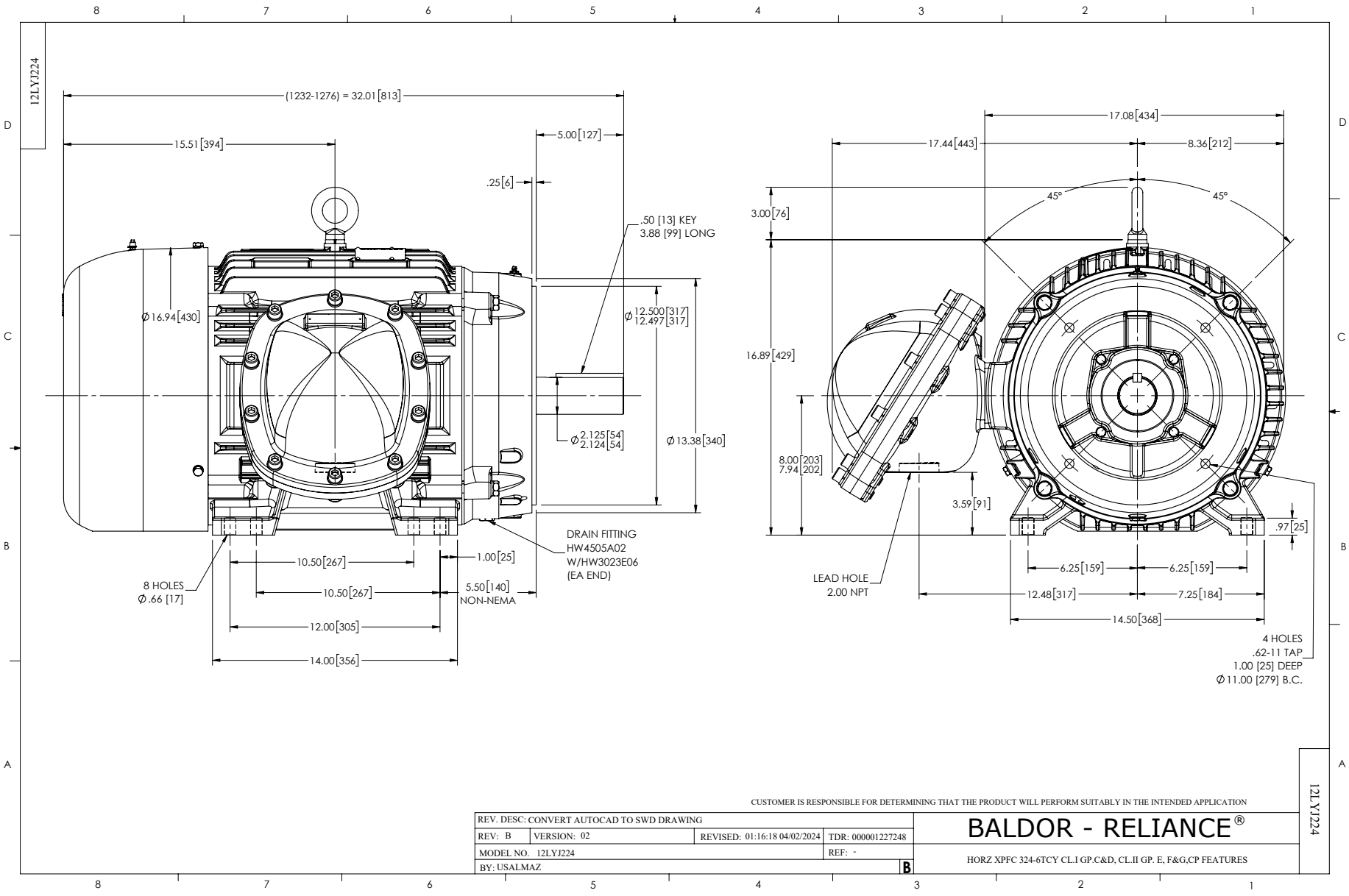
Winding: 12WGY116-R026	**Type:** 1260M	**Enclosure:** XPFC

Nameplate Data				**380 V, 50 Hz: High Voltage Connection**	
Rated Output (HP)			25//20	**Full Load Torque**	107 LB-FT
Volts			230/460//190/380	**Start Configuration**	direct on line
Full Load Amps			63/32//62/31	**Breakdown Torque**	298 LB-FT
R.P.M.			1180//985	**Pull-up Torque**	122 LB-FT
Hz	60//50	**Phase**	3	**Locked-rotor Torque**	179 LB-FT
NEMA Design Code	A	**KVA Code**	H	**Starting Current**	194 A
Service Factor (S.F.)			1	**No-load Current**	13.66 A
NEMA Nom. Eff.	93	**Power Factor**	79	**Line-line Res. @ 25ºC**	0.286 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	44°C
S.F. Amps				**Temp. Rise @ S.F. Load**	54°C
				Locked-rotor Power Factor	31.2
				Rotor inertia	11.5 LB-FT2

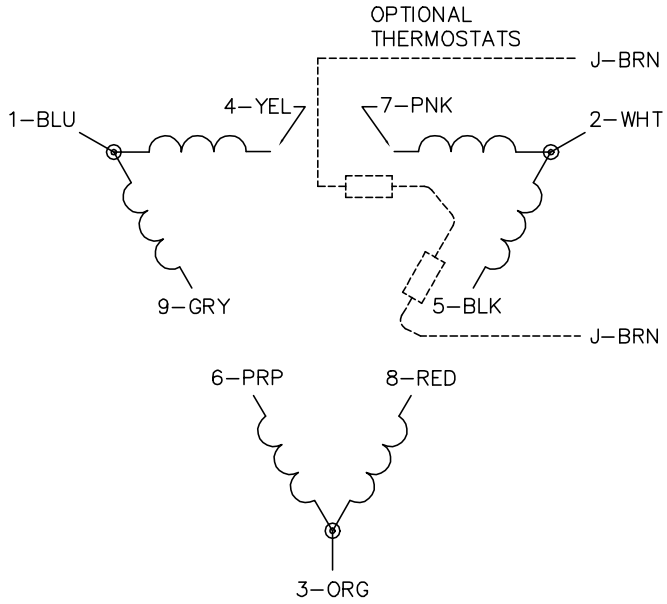
Load Characteristics 380 V, 50 Hz, 20 HP

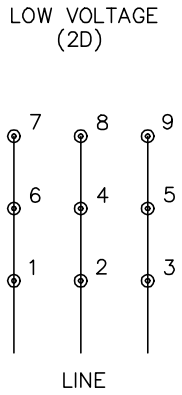
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	43	65	74	79	81	81
Efficiency	87.2	91.6	92.4	92.6	91.6	90.4
Speed	996	992	989	984	980	974
Line amperes	15.36	19.25	24.75	31.04	38.2	47.83

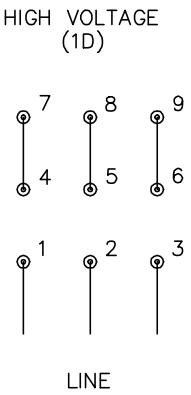

ABB Motors and Mechanical Inc.
WINDING # 12WGY116
20 HP 3 PH 50 HZ 984 RPM 380 V 1260M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=298 PU=122 LR=179 LRA=194
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (20 HP)
4/7/2025 ACPERF, record # 75510


12LYJ224
(1232-1276) = 32.01[813]
15.51[394]
5.00[127]
.25[6]
.50 [13] KEY
3.88 [99] LONG
Ø16.94[430]
Ø12.500[317]
12.497[317]
Ø2.125[54]
2.124[54]
Ø13.38[340]
DRAIN FITTING
HW4505A02
W/HW3023E06
(EA END)
8 HOLES
Ø.66 [17]
10.50[267]
1.00[25]
10.50[267]
5.50[140]
NON-NEMA
12.00[305]
14.00[356]
17.08[434]
17.44[443]
8.36[212]
45°
45°
3.00[76]
16.89[429]
8.00[203]
7.94[202]
3.59[91]
.97[25]
LEAD HOLE
2.00 NPT
6.25[159]
6.25[159]
12.48[317]
7.25[184]
14.50[368]
4 HOLES
.62-11 TAP
1.00 [25] DEEP
Ø11.00 [279] B.C.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD TO SWD DRAWING
REV: B
VERSION: 02
REVISED: 01:16:18 04/02/2024
TDR: 000001227248
MODEL NO. 12LYJ224
REF: -
BY: USALMAZ
B
BALDOR - RELIANCE®
HORZ XPFC 324-6TCY CL.I GP.C&D, CL.II GP. E, F&G,CP FEATURES
12LYJ224

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