ABB BALDOR RELIANCE

Customer information packet

EM7082T-I

25//20HP, 1180//985RPM, 3PH, 60//50HZ, 324T
Class - CLI GP C,D
Division - Division I

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Specifications

Enclosure	XPFC
Frame	324T
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	20.000 HP @ 50 HZ
	25.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 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
	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
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
Duty Rating	CONT

Part Detail

Revision	AA
Type	AC
Mech. spec.	12S077
Base	
Status	PRD/A
Elec. spec.	12WGY116
Layout	12LYS077
Eff. date	02-21-2024
CD Diagram	CD0180
Poles	06
Leads	9#8
Proprietary	False
Created date	06-08-2011

Efficiency @ 100% Load	93.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
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	Not Inverter
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
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	General Purpose
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS NON-COMPLIANT
Service Factor	1.15
Shaft Diameter	2.125 IN
Shaft Extension Location	Pulley End
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

NP0977XPSLEV											
NO.						**CC**	010A				
SER.						**TEMP CODE**	T3C				
SPEC.	12S077Y116G1										
CAT.NO.	EM7082T-I										
HP	25//20 NEMA MG-1 PT.5,IP55										
VOLTS	230/460//190/380										
AMPS	63/32//62/31										
RPM	1180//985				**MOTOR WEIGHT**		741				
HERTZ	60//50	**PH**	3	**CL**	F	**DE BRG**	6312				
SER.F.	1.15	**DES**	A	**CODE**	H	**ODE BRG**	6311				
FRAME	324T	**GREASE**	POLYREX EM								
RATING	40C AMB-CONT										
				NEMA-NOM-EFF		93	**PF**	79			
	55C AMB @ 1.0 SF 60C RISE										

AC Induction Motor Performance Data
Record # 34367
Typical performance - not guaranteed values

Winding: 12WGY116-R004	**Type:** 1260M	**Enclosure:** XPFC

Nameplate Data			
Rated Output (HP)			25//20
Volts			230/460//190/380
Full Load Amps			63/32//62/31
R.P.M.			1180//985
Hz	60//50	**Phase**	3
NEMA Design Code	A	**KVA Code**	H
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	93	**Power Factor**	79
Rating - Duty			40C AMB-CONT
S.F. Amps			

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	111 LB-FT
Start Configuration	direct on line
Breakdown Torque	308 LB-FT
Pull-up Torque	117 LB-FT
Locked-rotor Torque	171 LB-FT
Starting Current	198 A
No-load Current	13.8 A
Line-line Res. @ 25ºC	0.27033 Ω
Temp. Rise @ Rated Load	46°C
Temp. Rise @ S.F. Load	56°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**	**S.F.**
Power Factor	43	65	75	79	81	81	80
Efficiency	89.1	92.8	93.5	93.2	92.6	91.5	92.8
Speed	1195.4	1191.8	1188.2	1183.9	1179.3	1172.9	1181
Line amperes	15.6	19.7	25.4	31.9	39.2	49.1	36.3

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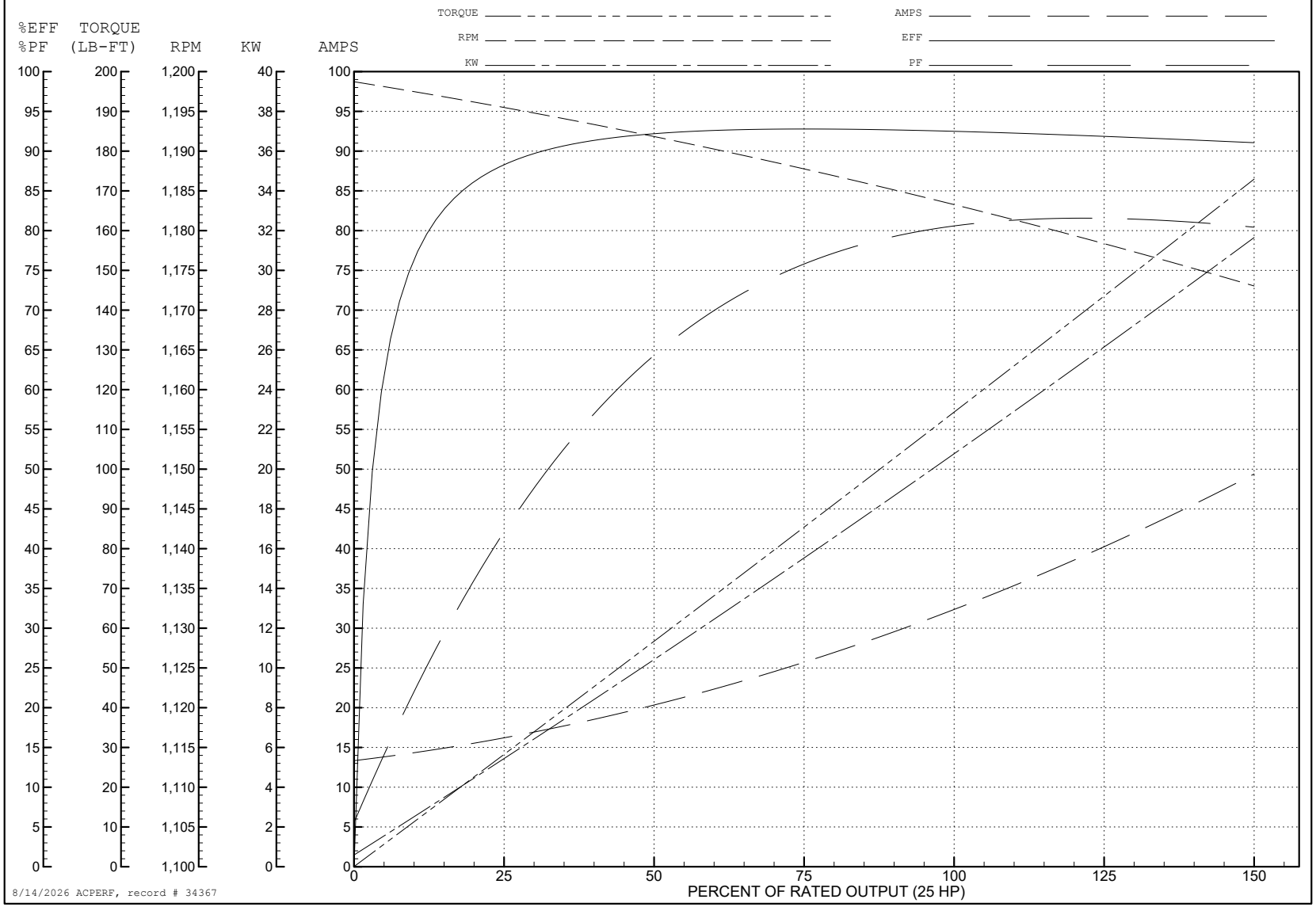
WINDING # 12WGY116

25 HP 3 PH 60 HZ 1183.9 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 # 34368
Typical performance - not guaranteed values

Winding: 12WGY116-R004	**Type:** 1260M	**Enclosure:** XPFC

Nameplate Data			
Rated Output (HP)			25//20
Volts			230/460//190/380
Full Load Amps			63/32//62/31
R.P.M.			1180//985
Hz	60//50	**Phase**	3
NEMA Design Code	A	**KVA Code**	H
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	93	**Power Factor**	79
Rating - Duty			40C AMB-CONT
S.F. Amps			

380 V, 50 Hz: High Voltage Connection	
Full Load Torque	107 LB-FT
Start Configuration	direct on line
Breakdown Torque	298 LB-FT
Pull-up Torque	123 LB-FT
Locked-rotor Torque	179 LB-FT
Starting Current	194 A
No-load Current	13.7 A
Line-line Res. @ 25ºC	0.274 Ω
Temp. Rise @ Rated Load	44°C
Temp. Rise @ S.F. Load	53°C
Locked-rotor Power Factor	32
Rotor inertia	11.5 LB-FT2

Load Characteristics 380 V, 50 Hz, 20 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	43	65	75	79	81	81	80
Efficiency	86.4	91.2	92.2	92.3	91.6	90.3	91.9
Speed	996	992	989	984	980	974	982
Line amperes	15.4	19.3	24.8	31.1	38.2	47.9	35.4

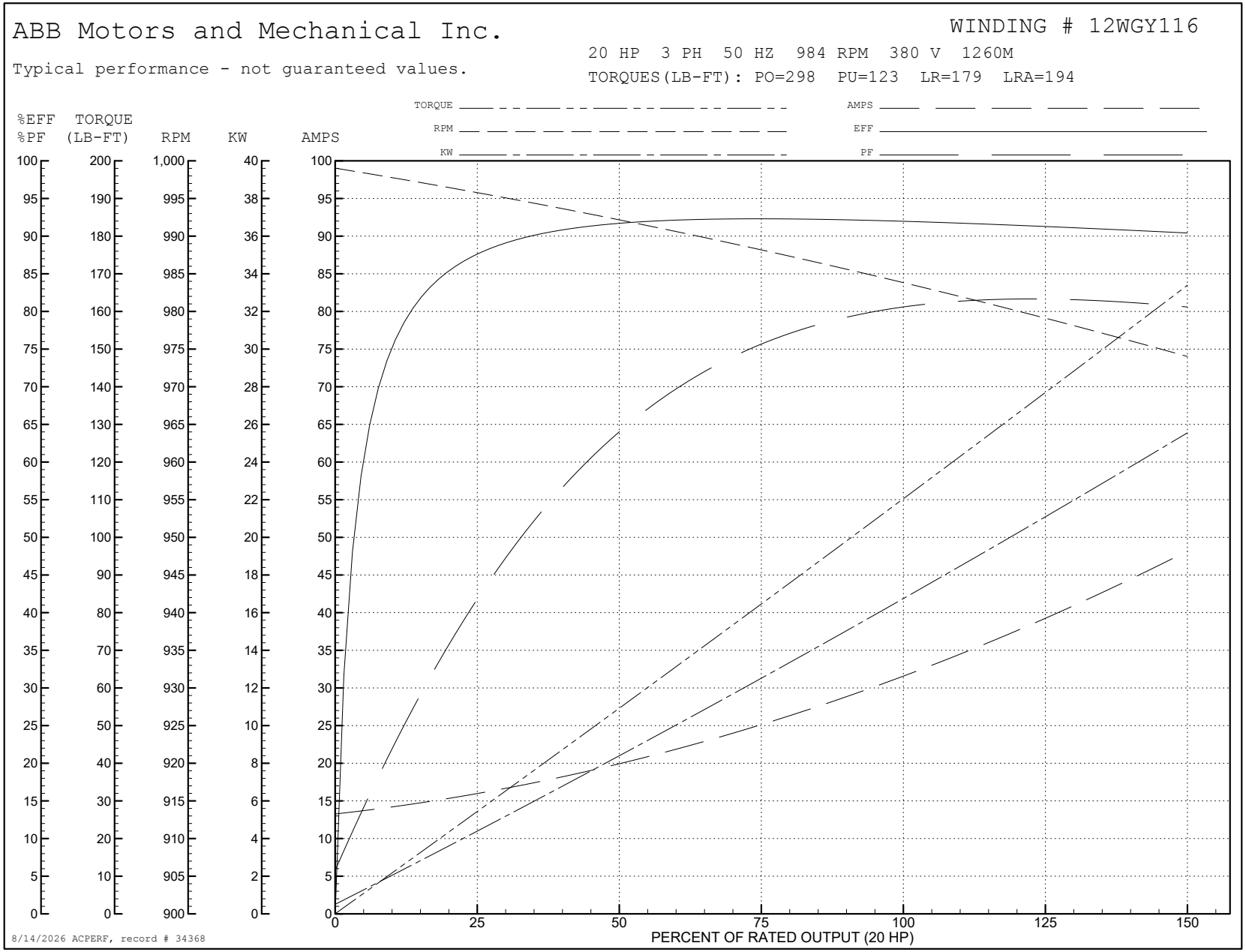
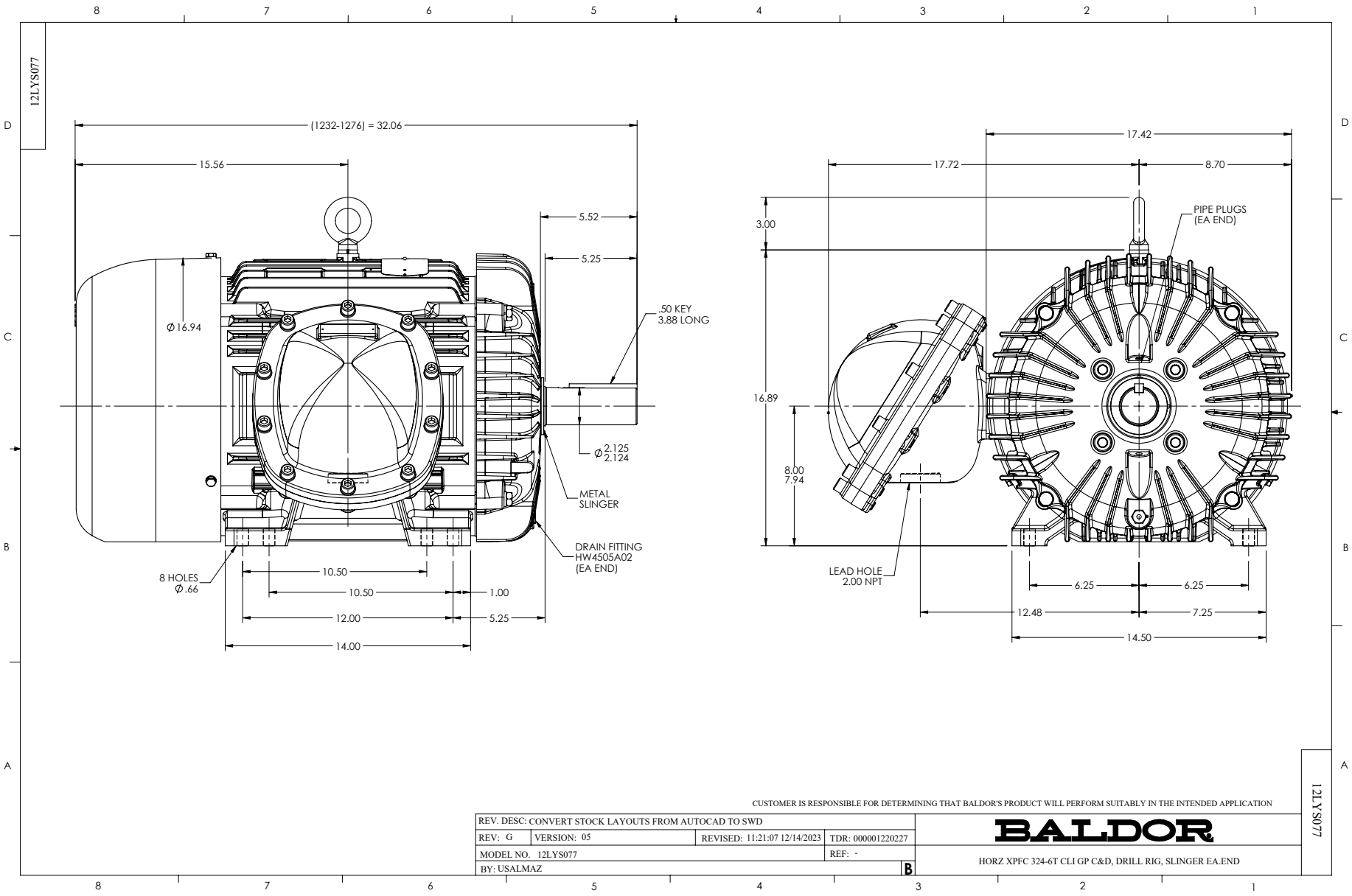
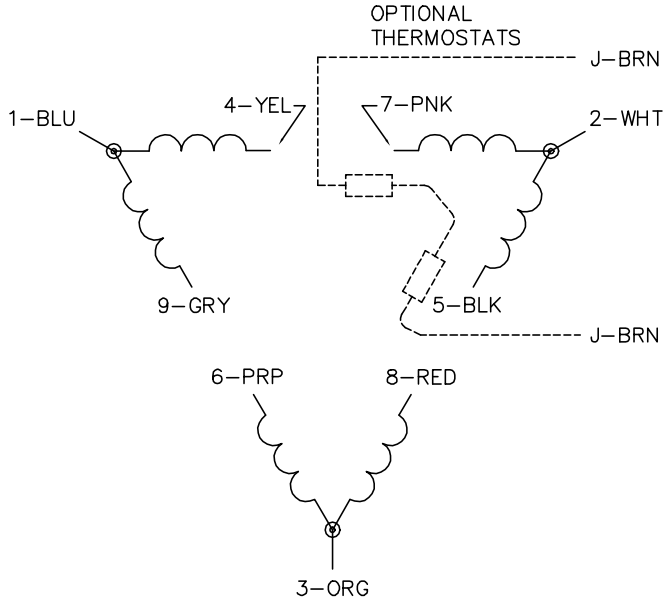
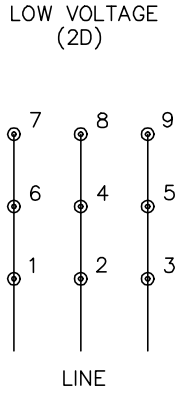


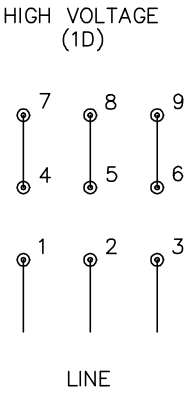
ABB Motors and Mechanical Inc.
WINDING # 12WGY116
Typical performance - not guaranteed values.
20 HP 3 PH 50 HZ 984 RPM 380 V 1260M
TORQUES(LB-FT): PO=298 PU=123 LR=179 LRA=194
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (20 HP)
8/14/2026 ACPERF, record # 34368


12LYS077
(1232-1276) = 32.06
15.56
5.52
5.25
.50 KEY
3.88 LONG
Ø16.94
Ø2.125
2.124
METAL
SLINGER
DRAIN FITTING
HW4505A02
(EA END)
8 HOLES
Ø.66
10.50
10.50
1.00
12.00
5.25
14.00
17.42
17.72
8.70
PIPE PLUGS
(EA END)
3.00
16.89
8.00
7.94
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: G
VERSION: 05
REVISED: 11:21:07 12/14/2023
TDR: 000001220227
MODEL NO. 12LYS077
REF: -
BY: USALMAZ
B
BALDOR
HORZ XPFC 324-6T CLI GP C&D, DRILL RIG, SLINGER EA.END
12LYS077

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