ABB BALDOR RELIANCE

Customer information packet

EM7079T

15//20HP, 980//1180RPM, 3PH, 50//60HZ, 286T
Class - CLI GP D; CLII GP F,G
Division - Division I

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Specifications

Enclosure	XPFC
Frame	286T
Frame Material	Iron
Frequency	50.00 Hz
	60.00 Hz
Haz Area Class and Group	CLI GP D; CLII GP F,G
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	15.000 HP @ 50 HZ
	20.000 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	56.000 A @ 208.0 V
	54.000 A @ 230.0 V
	50.000 A @ 190.0 V
	27.000 A @ 460.0 V
	25.000 A @ 380.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT

Part Detail

Revision	X
Type	AC
Mech. spec.	10E106
Base	
Status	PRD/A
Elec. spec.	10WGY730
Layout	10LYE106
Eff. date	02-15-2024
CD Diagram	CD0180
Poles	06
Leads	9#10
Proprietary	False
Created date	08-02-2010

Efficiency @ 100% Load	91.7 %
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	25.0 a
Insulation Class	B
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 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1054M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	28.61 IN
Power Factor	77
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.00
Shaft Diameter	1.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger

Speed	1180 rpm
	980 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	NONE (OLD)
Thermal Device - Winding	Normally Closed Thermostat
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP1426XPSLEV							
NO.		**CC**	010A				
SER.							
SPEC.	10E106Y730G1						
CAT.NO.	EM7079T						
HP	20//15	**T. CODE**	T3C				
VOLTS	230/460//190/380						
AMPS	54/27//50/25						
RPM	1180//980						
HZ	60//50	**PH**	3	**CL**	B		
SER.F.	1.00	**DES**	A	**CODE**	H		
RATING	40C AMB-CONT						
FRAME	286T			**NEMA-NOM-EFF**	91.7		
		PF	77				
BLANK							

AC Induction Motor Performance Data
Record # 32058
Typical performance - not guaranteed values

Winding: 10WGY730-R004	**Type:** 1054M	**Enclosure:** XPFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			15//20	**Full Load Torque**	89.4 LB-FT
Volts			190/380//230/460	**Start Configuration**	direct on line
Full Load Amps			50/25//54/27	**Breakdown Torque**	276 LB-FT
R.P.M.			980//1180	**Pull-up Torque**	115 LB-FT
Hz	50//60	**Phase**	3	**Locked-rotor Torque**	166 LB-FT
NEMA Design Code	A	**KVA Code**	H	**Starting Current**	165 A
Service Factor (S.F.)			1	**No-load Current**	13.1 A
NEMA Nom. Eff.	91.7	**Power Factor**	77	**Line-line Res. @ 25ºC**	0.39486 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	65°C
				Locked-rotor Power Factor	32
				Rotor inertia	6.61 LB-FT2

Load Characteristics 460 V, 60 Hz, 20 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	39	60	71	77	79	80
Efficiency	86.6	91.1	91.9	91.7	90.9	89.8
Speed	1194.6	1189.5	1184.1	1178.3	1171.4	1163.8
Line amperes	14.3	17.5	21.9	26.9	32.7	39.3

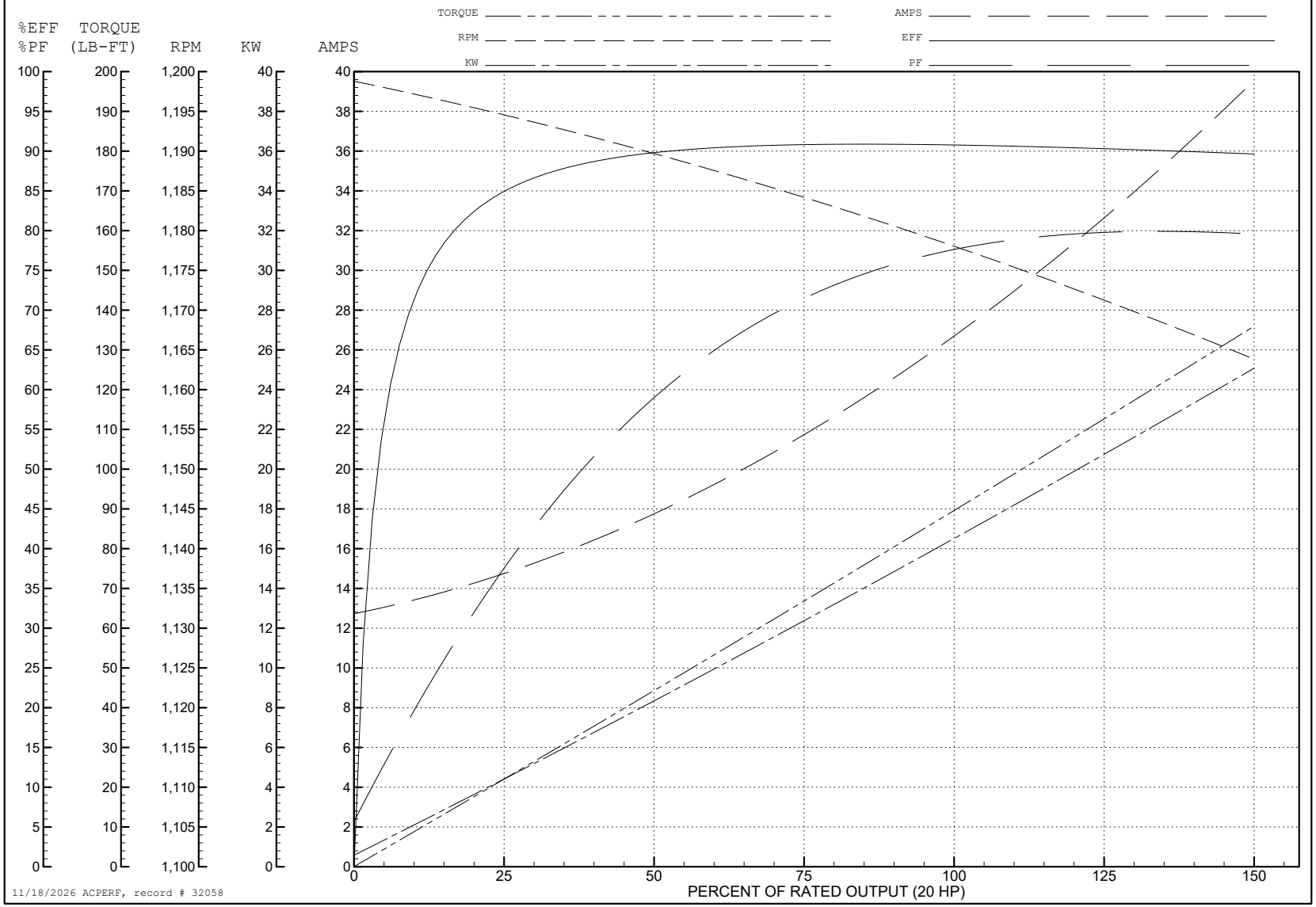
ABB Motors and Mechanical Inc.

WINDING # 10WGY730

20 HP 3 PH 60 HZ 1178.3 RPM 460 V 1054M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=276 PU=115 LR=166 LRA=165



AC Induction Motor Performance Data
Record # 32059
Typical performance - not guaranteed values

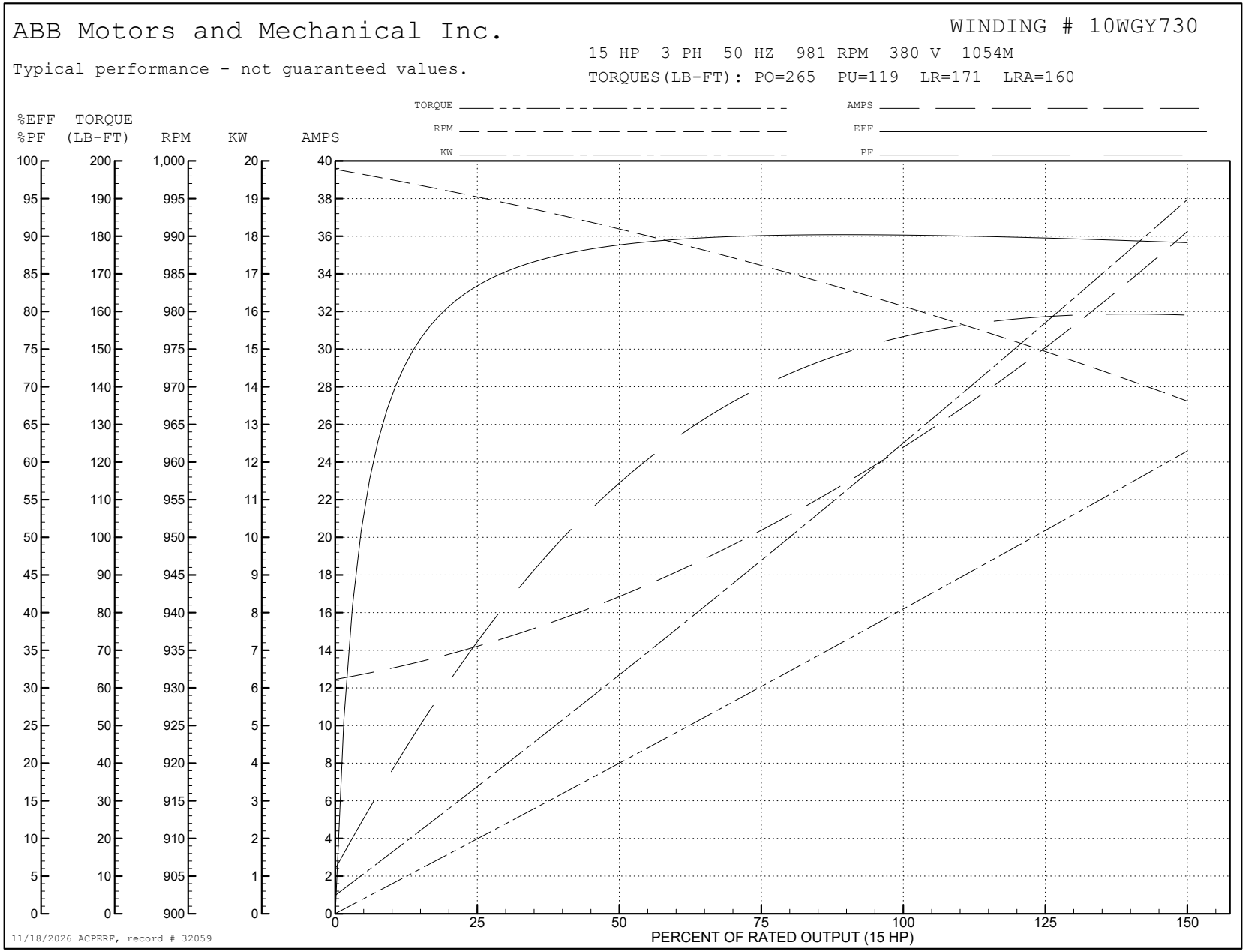
Winding: 10WGY730-R004	**Type:** 1054M	**Enclosure:** XPFC

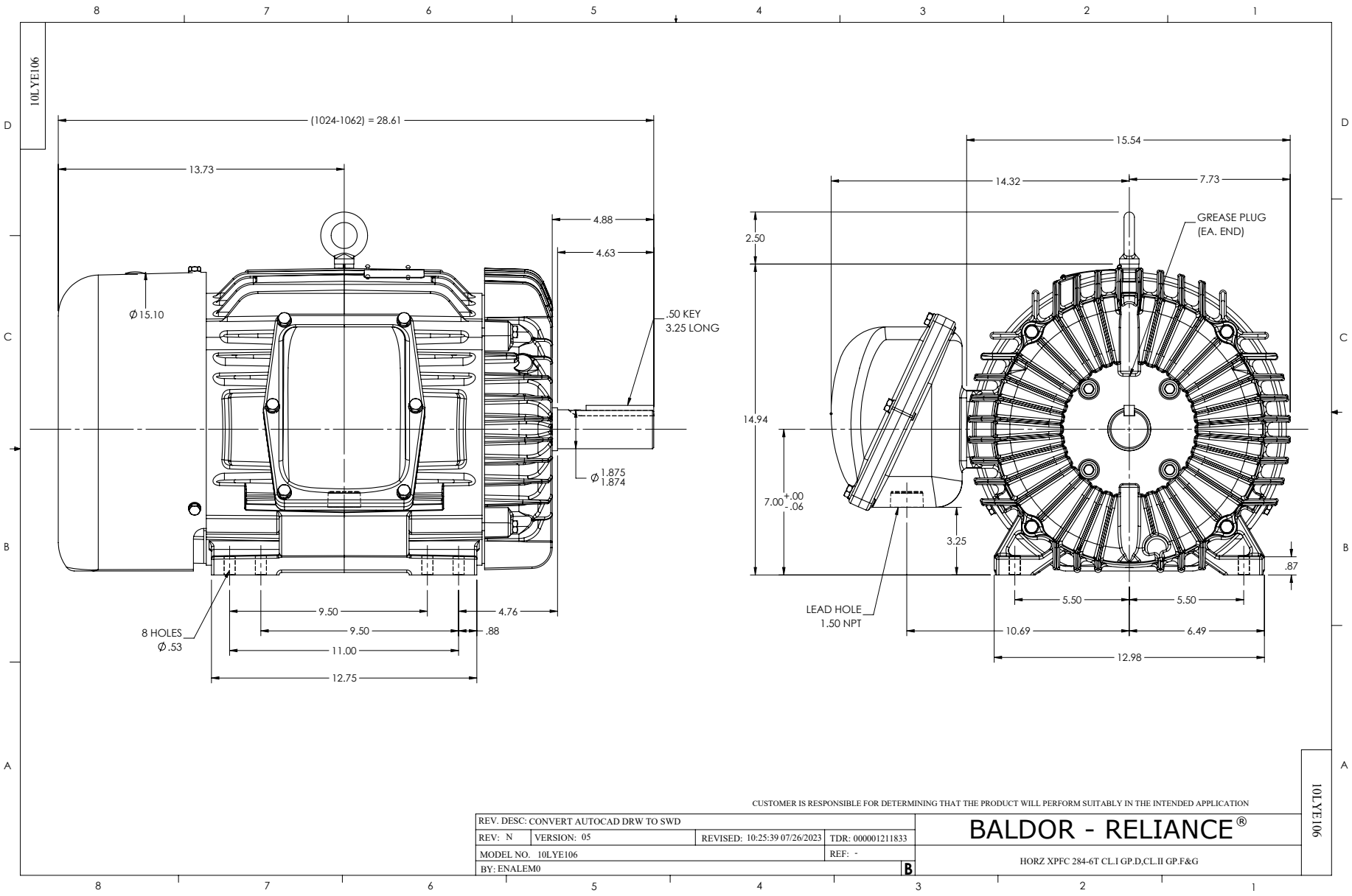
Nameplate Data			
Rated Output (HP)			15//20
Volts			190/380//230/460
Full Load Amps			50/25//54/27
R.P.M.			980//1180
Hz	50//60	**Phase**	3
NEMA Design Code	A	**KVA Code**	H
Service Factor (S.F.)			1
NEMA Nom. Eff.	91.7	**Power Factor**	77
Rating - Duty			40C AMB-CONT

380 V, 50 Hz: High Voltage Connection	
Full Load Torque	80.5 LB-FT
Start Configuration	direct on line
Breakdown Torque	265 LB-FT
Pull-up Torque	119 LB-FT
Locked-rotor Torque	171 LB-FT
Starting Current	160 A
No-load Current	12.8 A
Line-line Res. @ 25ºC	0.403 Ω
Temp. Rise @ Rated Load	58°C
Locked-rotor Power Factor	35
Rotor inertia	6.61 LB-FT2

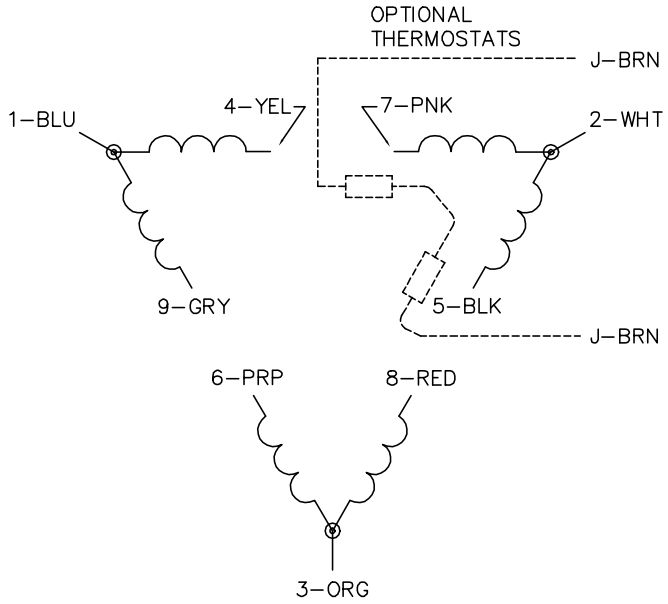
Load Characteristics 380 V, 50 Hz, 15 HP

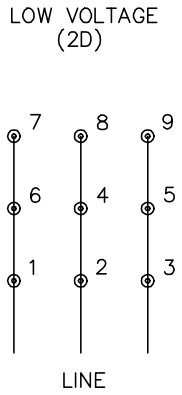
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	38	58	69	76	79	80
Efficiency	82.8	88.6	90.4	90.3	89.6	89.2
Speed	995	991	986	981	975	968
Line amperes	13.8	16.6	20.5	24.9	30.1	36

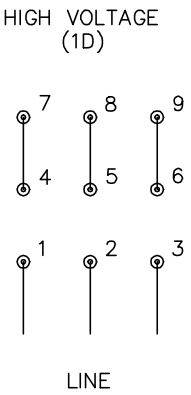

ABB Motors and Mechanical Inc.
WINDING # 10WGY730
15 HP 3 PH 50 HZ 981 RPM 380 V 1054M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=265 PU=119 LR=171 LRA=160
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (15 HP)
11/18/2026 ACPERF, record # 32059


10LYE106
(1024-1062) = 28.61
13.73
4.88
4.63
Ø15.10
.50 KEY
3.25 LONG
Ø1.875
1.874
9.50
4.76
8 HOLES
Ø.53
9.50
.88
11.00
12.75
15.54
14.32
7.73
GREASE PLUG
(EA. END)
2.50
14.94
7.00 +.00 -.06
3.25
.87
LEAD HOLE
1.50 NPT
5.50
5.50
10.69
6.49
12.98
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRW TO SWD
REV: N
VERSION: 05
REVISED: 10:25:39 07/26/2023
TDR: 000001211833
MODEL NO. 10LYE106
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HORZ XPFC 284-6T CL.I GP.D,CL.II GP.F&G
10LYE106

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