ABB BALDOR RELIANCE

Customer information packet

EM7082T

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

8/24/2026 2:21:28 AM

Specifications

Enclosure	XPFC
Frame	324T
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	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	V
Type	AC
Mech. spec.	12L18
Base	
Status	PRD/A
Elec. spec.	12WGY116
Layout	12LYL018
Eff. date	12-10-2024
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	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 @ 8 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1260M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	32.00 IN
Power Factor	79
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	2.125 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1180 rpm

	985 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.	12L018Y116G1						
CAT.NO.	EM7082T						
HP	25//20	**T. CODE**	T3C				
VOLTS	230/460//190/380						
AMPS	63/32//62/31						
RPM	1180//985						
HZ	60//50	**PH**	3	**CL**	B		
SER.F.	1.00	**DES**	A	**CODE**	H		
RATING	40C AMB-CONT						
FRAME	324T			**NEMA-NOM-EFF**	93		
		PF	79				
BLANK							

AC Induction Motor Performance Data
Record # 34364
Typical performance - not guaranteed values

Winding: 12WGY116-R003	**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
NEMA Nom. Eff.	93	**Power Factor**	79
Rating - Duty			40C AMB-CONT

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
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

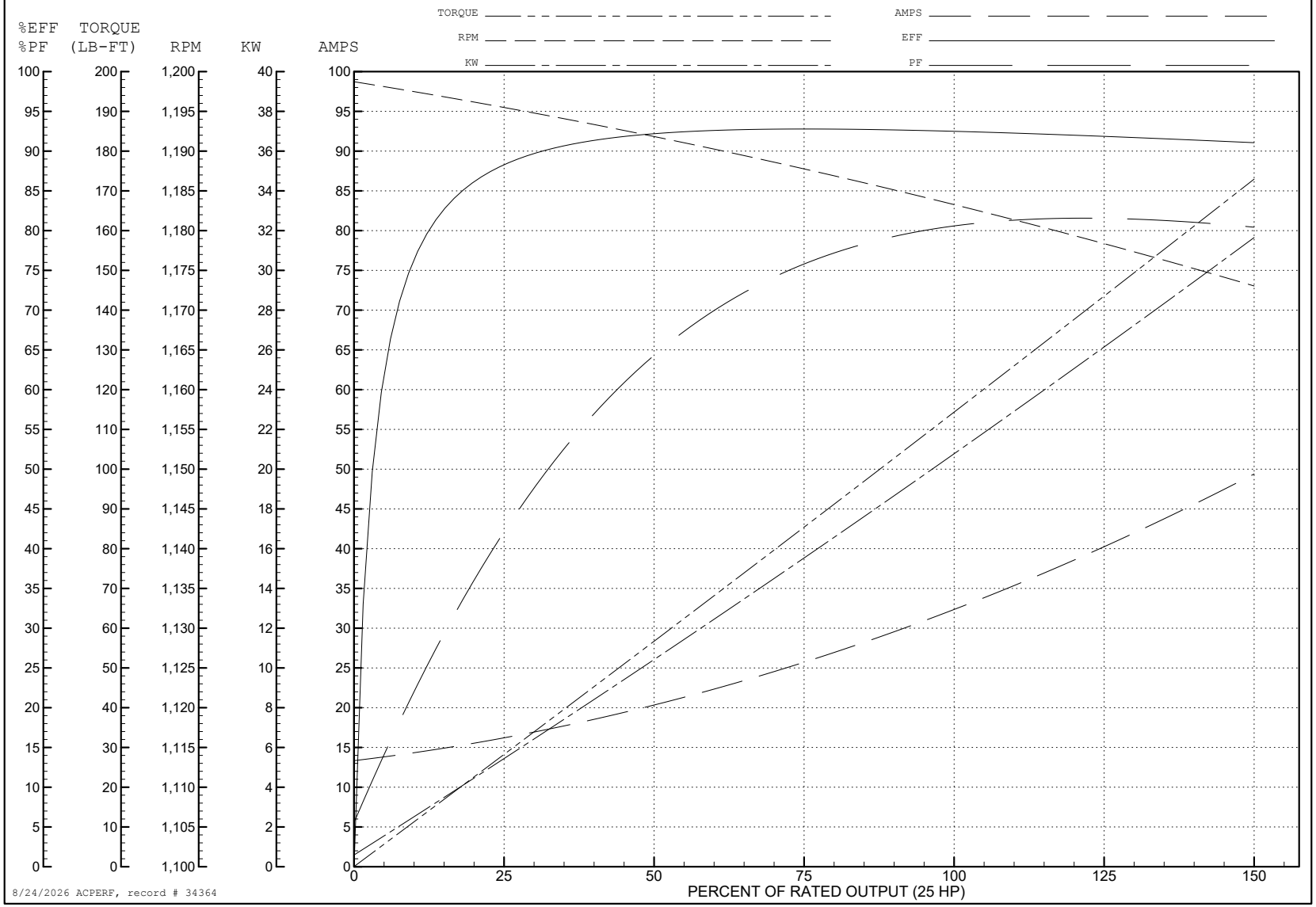
ABB Motors and Mechanical Inc.

WINDING # 12WGY116

25 HP 3 PH 60 HZ 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 # 34365
Typical performance - not guaranteed values

Winding: 12WGY116-R003	**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
NEMA Nom. Eff.	93	**Power Factor**	79
Rating - Duty			40C AMB-CONT

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
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**
Power Factor	43	65	75	79	81	81
Efficiency	86.4	91.2	92.2	92.3	91.6	90.3
Speed	996	992	989	984	980	974
Line amperes	15.4	19.3	24.8	31.1	38.2	47.9

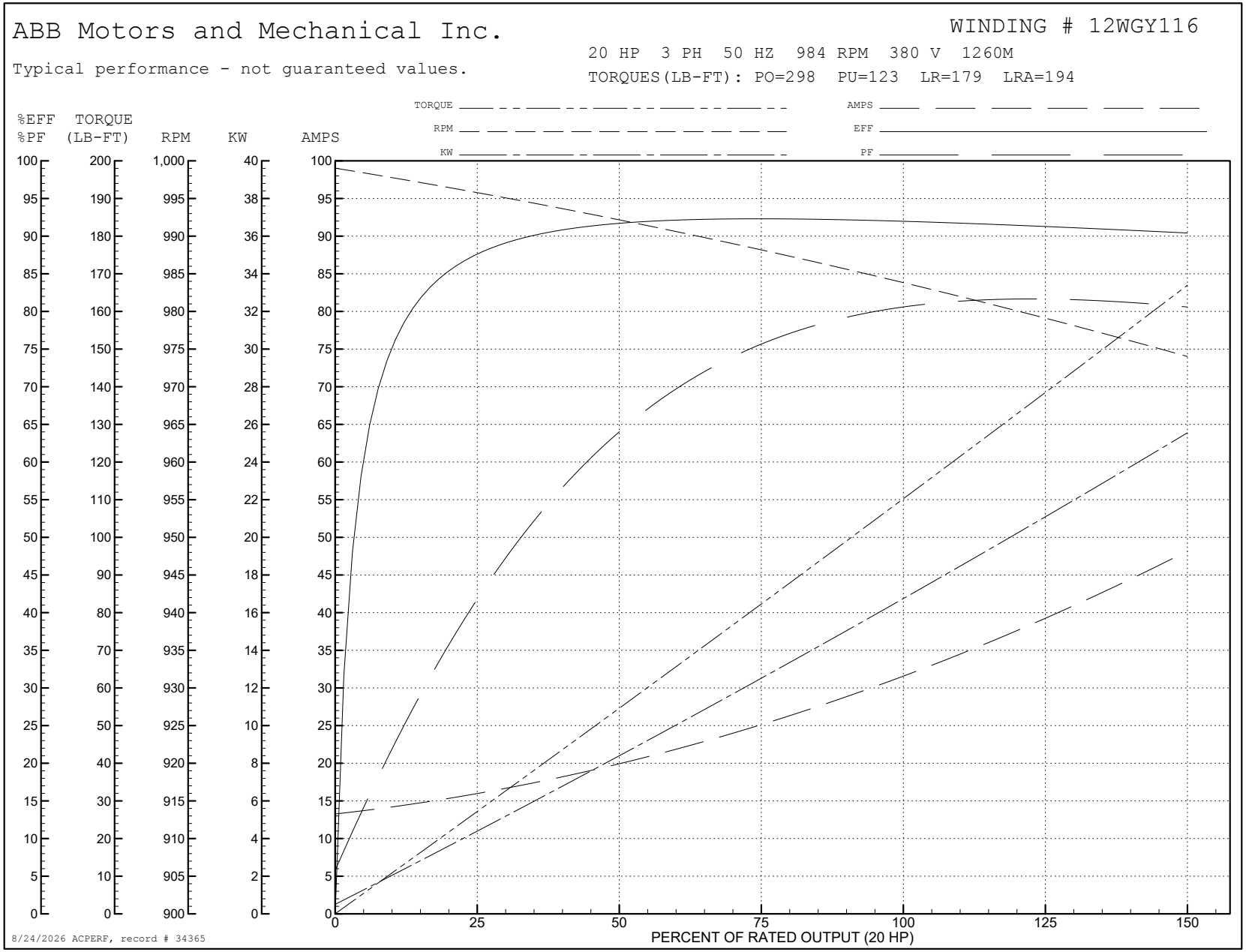
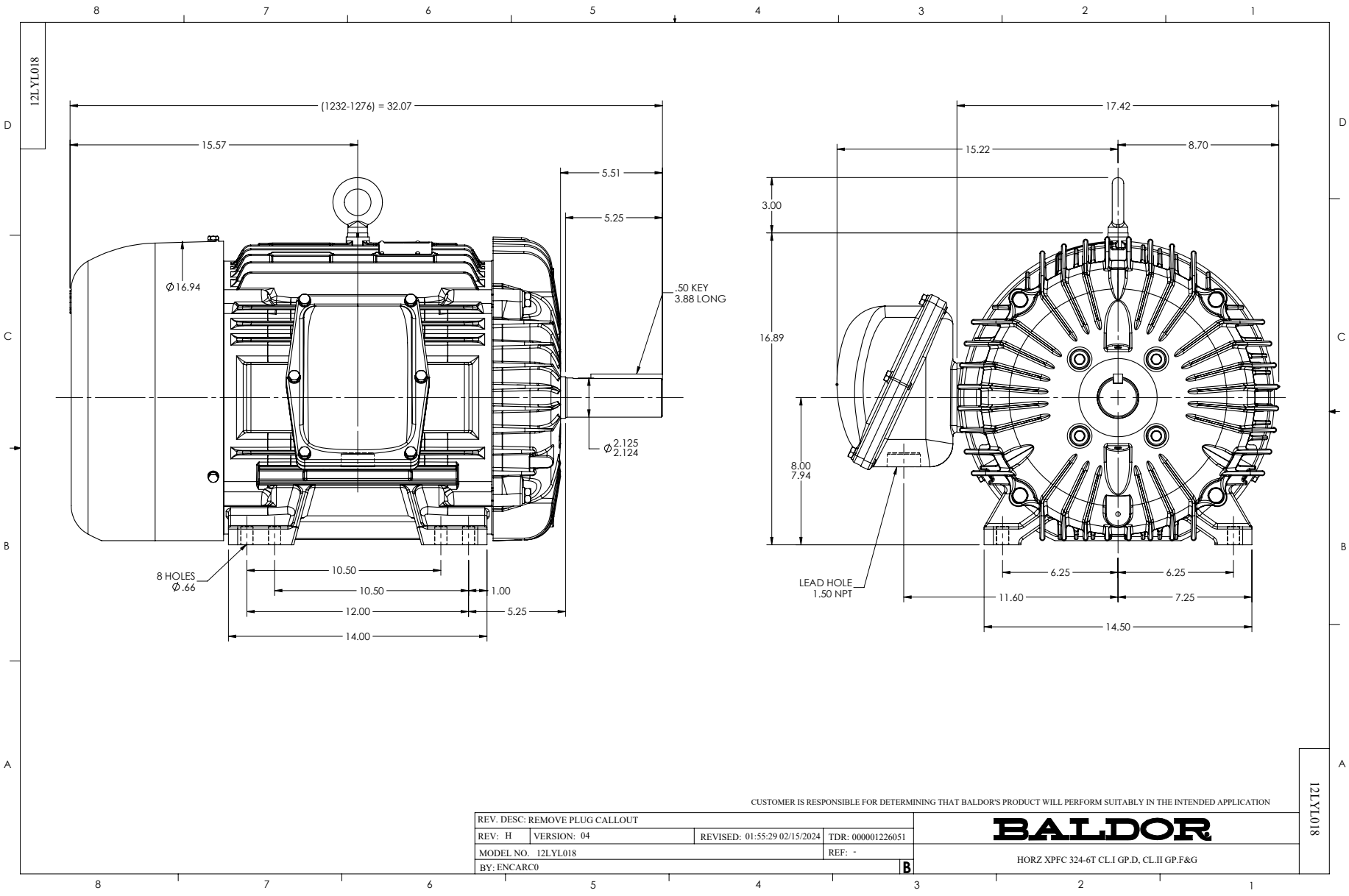
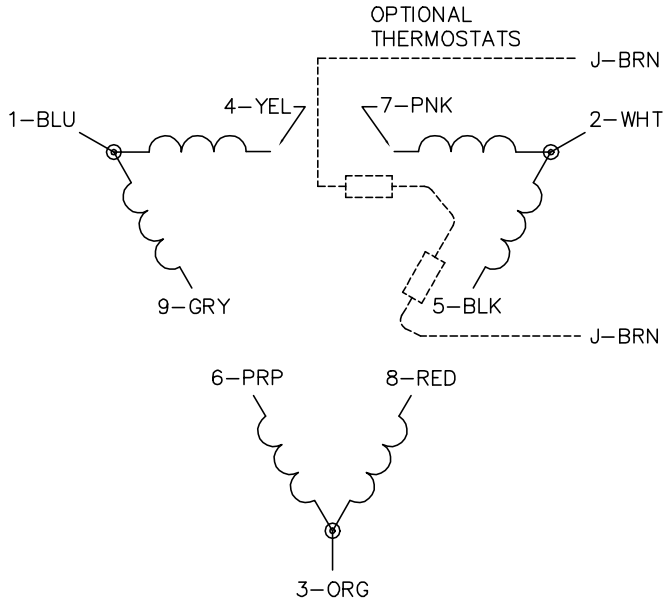
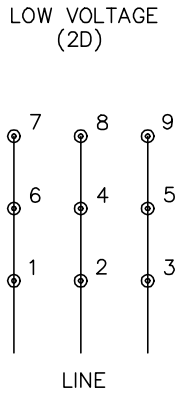


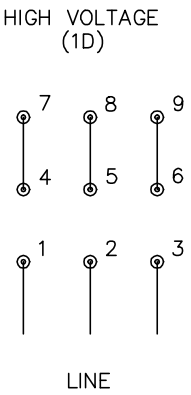
ABB Motors and Mechanical Inc.
WINDING # 12WGY116
Typical performance - not guaranteed values.
20 HP 3 PH 50 HZ 984 RPM 380 V 1260M
TORQUES(LB-FT): PO=298 PU=123 LR=179 LRA=194
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (20 HP)
8/24/2026 ACPERF, record # 34365


12LYL018
(1232-1276) = 32.07
15.57
5.51
5.25
Ø16.94
.50 KEY
3.88 LONG
Ø 2.125
2.124
8 HOLES
Ø.66
10.50
10.50
1.00
12.00
5.25
14.00
17.42
15.22
8.70
3.00
16.89
8.00
7.94
LEAD HOLE
1.50 NPT
6.25
6.25
11.60
7.25
14.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: REMOVE PLUG CALLOUT
REV: H
VERSION: 04
REVISED: 01:55:29 02/15/2024
TDR: 000001226051
MODEL NO. 12LYL018
REF: -
BY: ENCARC0
B
BALDOR
HORZ XPFC 324-6T CL.I GP.D, CL.II GP.F&G
12LYL018

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