ABB BALDOR RELIANCE

Customer information packet

XM32542T

50//40HP, 1775//1470RPM, 3PH, 60//50HZ, 326T
Class - CLI GP D; CLII GP F,G
Division - Division I

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11/14/2026 3:14:34 PM

Specifications

Enclosure	XPFC
Frame	326T
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	50.000 HP @ 60 HZ
	40.000 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	190.0 V @ 50 HZ
	230.0 V @ 60 HZ
	380.0 V @ 50 HZ
Agency Approvals	UL
	CSA EEV
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	20
Current @ Voltage	112.000 A @ 190.0 V
	116.000 A @ 230.0 V
	56.000 A @ 380.0 V
	58.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT

Part Detail

Revision	C
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	12WGY141
Layout	12LYL018
Eff. date	12-04-2024
CD Diagram	CD0180
Poles	04
Leads	9#8 Y
Proprietary	False
Created date	05-12-2021

Efficiency @ 100% Load	94.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	56.0 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	2700 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1272M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	32.00 IN
Power Factor	85
Product Family	General Purpose
Pulley Face Code	Standard
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	2.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	1775 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

NP0887XPSLEV									
NO.				**CC**	010A				
S/N				**TEMP CODE**	T3C				
SPEC.	12-0000-2168			**INV.TYPE**	PWM				
CAT.NO.	XM32542T			**C HP FR**	60	**C HP TO**	90		
HP	50//40			**CT HZ FROM**	20			**CT HZ TO**	60
VOLTS	230/460//190/380			**VT HZ FROM**	6			**VT HZ TO**	60
AMPS	116/58//112/56			**MAG CUR**	19.8//19.46				
RPM	1775//1470			**MX RPM**	2700				
HZ	60//50	**PH**	3	**CL**	F	**NOM.EFF.**	94.5		
SER.F.	1.00	**DES**	A	**SL HZ**	0.8	**WK2**	9.59		
FRAME	326T	**RATING**	40C AMB-CONT						
	NEMA MG-1 PART 5, IP54								
	1.15 SF ON SINE WAVE								

AC Induction Motor Performance Data
Record # 42428
Typical performance - not guaranteed values

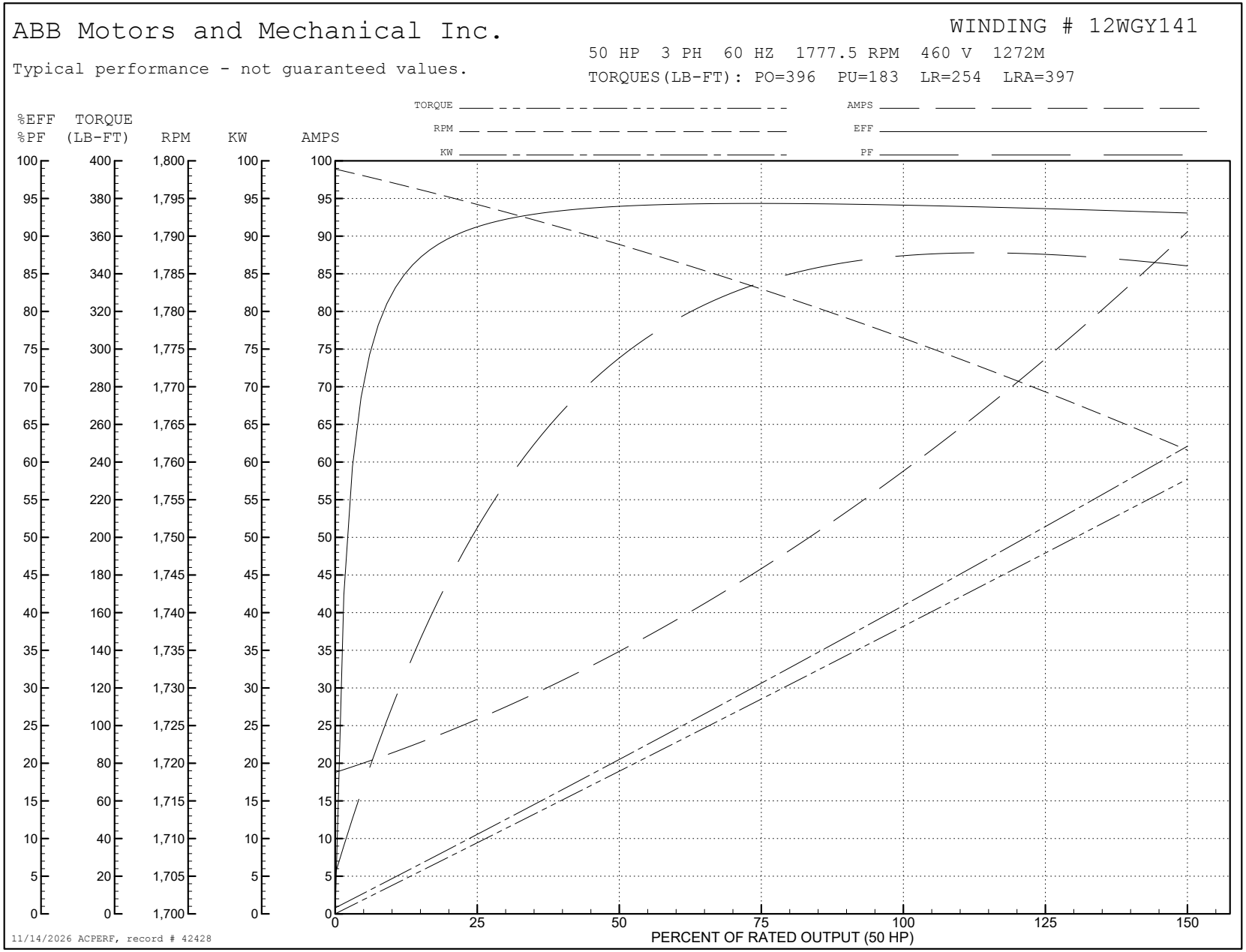
Winding: 12WGY141-R020	**Type:** 1272M	**Enclosure:** XPFC

Nameplate Data			
Rated Output (HP)			50//40
Volts			230/460//190/380
Full Load Amps			116/58//112/56
R.P.M.			1775//1470
Hz	60//50	**Phase**	3
NEMA Design Code	A	**KVA Code**	G
Service Factor (S.F.)			1
NEMA Nom. Eff.	94.5	**Power Factor**	85
Rating - Duty			40C AMB-CONT

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	147 LB-FT
Start Configuration	direct on line
Breakdown Torque	396 LB-FT
Pull-up Torque	183 LB-FT
Locked-rotor Torque	254 LB-FT
Starting Current	397 A
No-load Current	19.8 A
Line-line Res. @ 25ºC	0.10889 Ω
Temp. Rise @ Rated Load	64°C
Locked-rotor Power Factor	26
Rotor inertia	9.59 LB-FT2

Load Characteristics 460 V, 60 Hz, 50 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	53	74	83	86	87	87
Efficiency	91.3	94.3	94.8	94.6	94	93.1
Speed	1794.5	1789.3	1783.5	1777.5	1770.7	1761.5
Line amperes	24.2	33.5	44.7	57.6	71.5	90


ABB Motors and Mechanical Inc.
WINDING # 12WGY141
Typical performance - not guaranteed values.
50 HP 3 PH 60 HZ 1777.5 RPM 460 V 1272M
TORQUES(LB-FT): PO=396 PU=183 LR=254 LRA=397
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (50 HP)
11/14/2026 ACPERF, record # 42428

AC Induction Motor Performance Data
Record # 42429
Typical performance - not guaranteed values

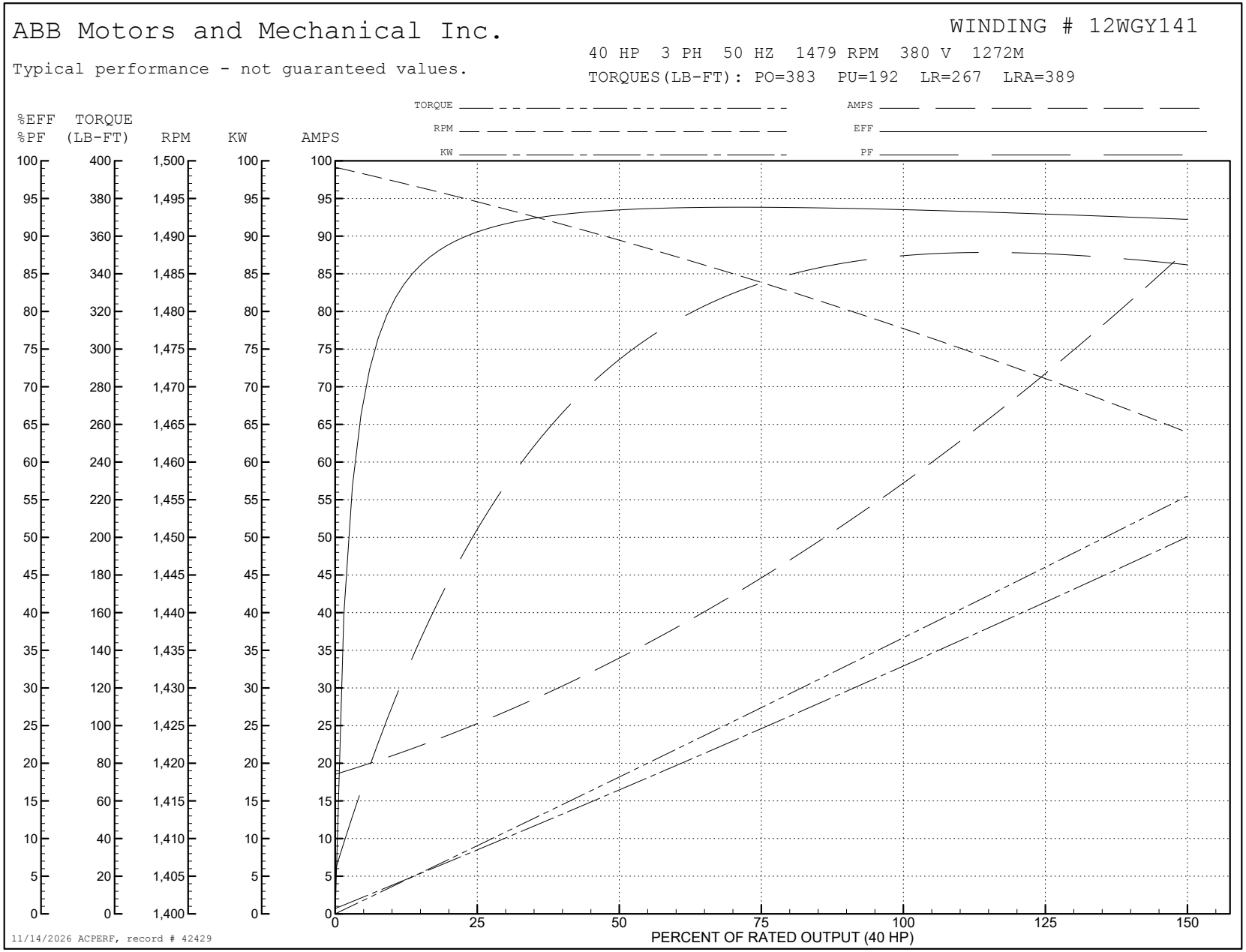
Winding: 12WGY141-R020	**Type:** 1272M	**Enclosure:** XPFC

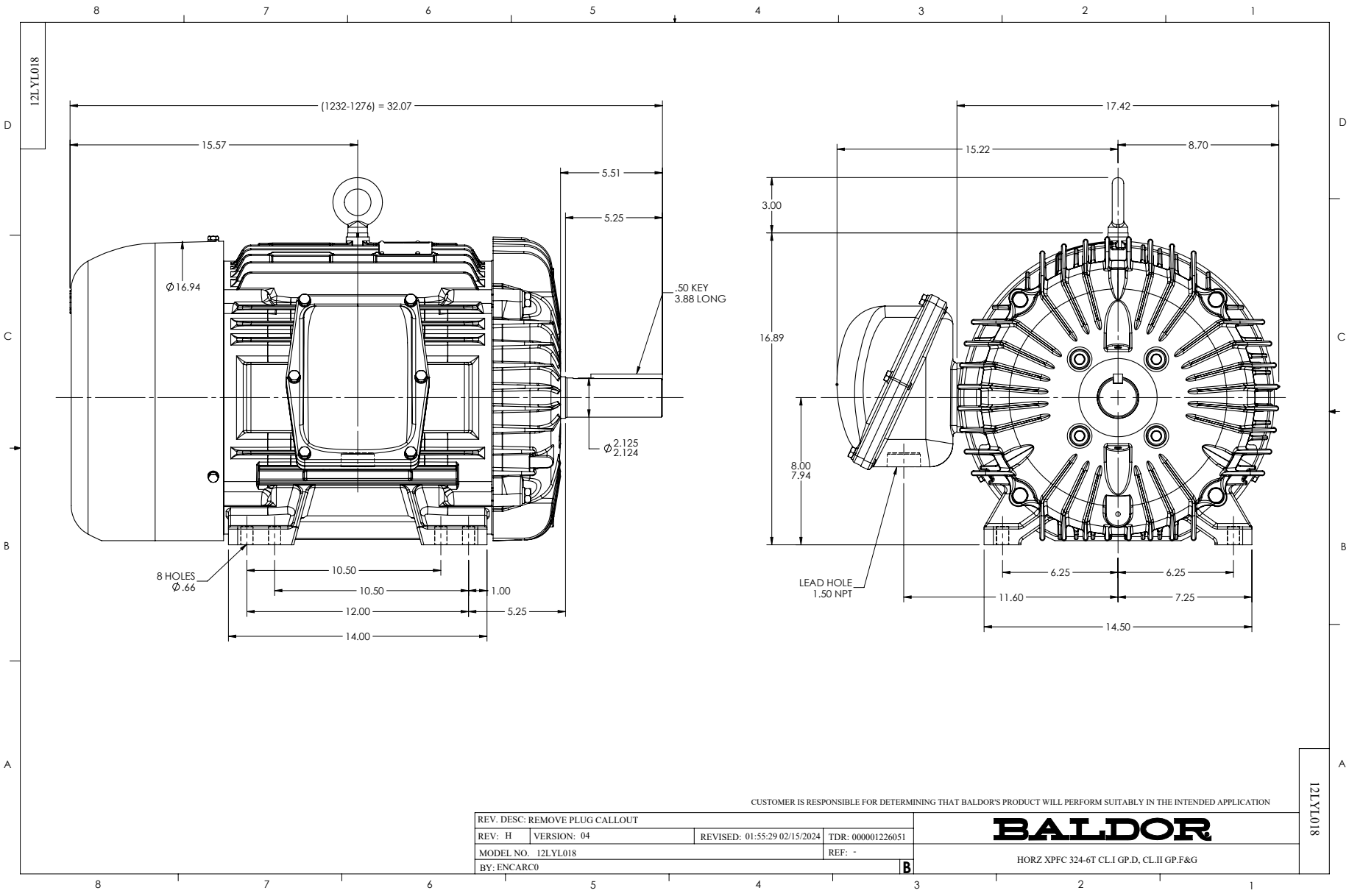
Nameplate Data			
Rated Output (HP)			50//40
Volts			230/460//190/380
Full Load Amps			116/58//112/56
R.P.M.			1775//1470
Hz	60//50	**Phase**	3
NEMA Design Code	A	**KVA Code**	G
Service Factor (S.F.)			1
NEMA Nom. Eff.	94.5	**Power Factor**	85
Rating - Duty			40C AMB-CONT
S.F. Amps			

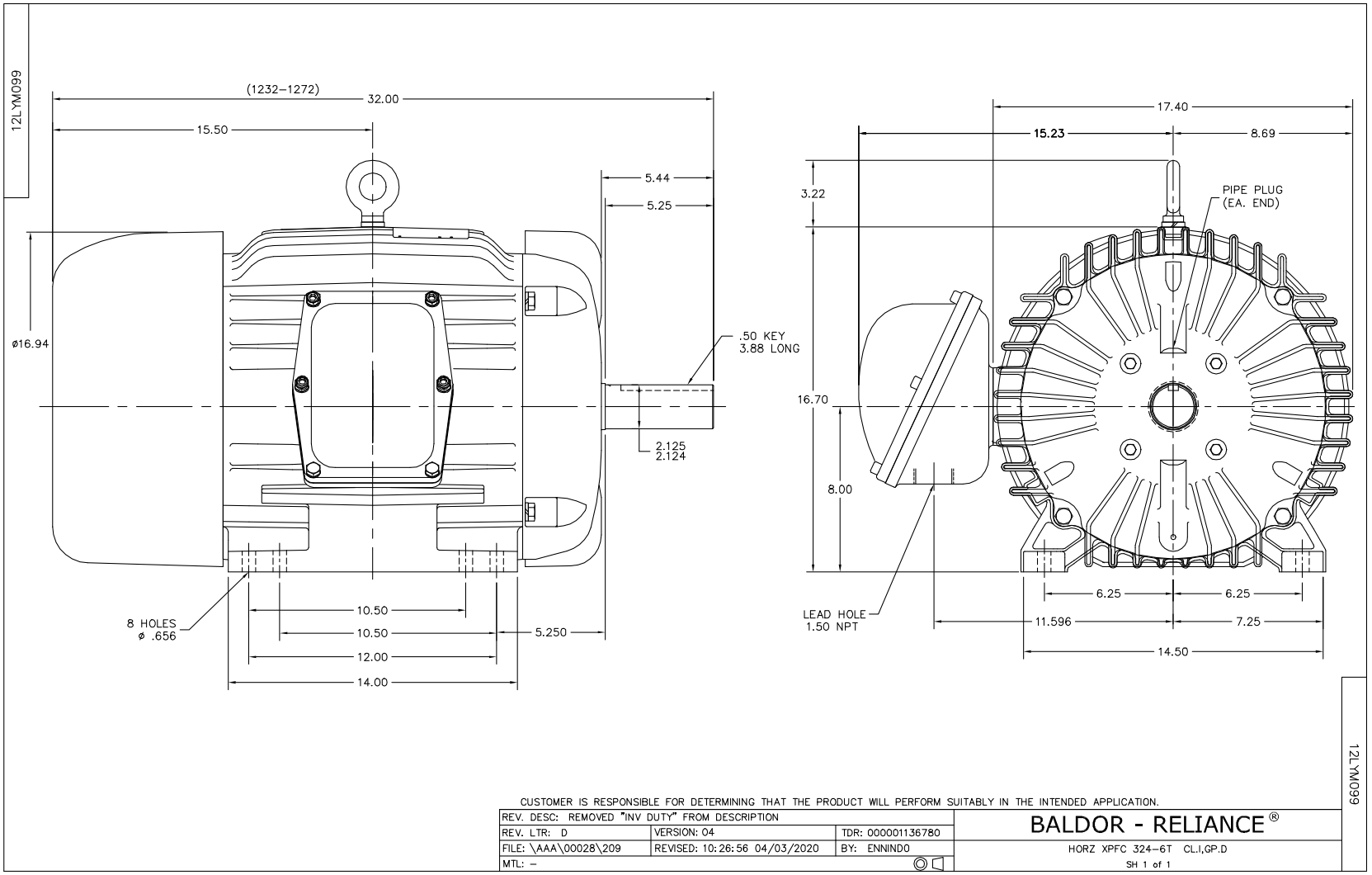
380 V, 50 Hz: High Voltage Connection	
Full Load Torque	141 LB-FT
Start Configuration	direct on line
Breakdown Torque	383 LB-FT
Pull-up Torque	192 LB-FT
Locked-rotor Torque	267 LB-FT
Starting Current	389 A
No-load Current	19.5 A
Line-line Res. @ 25ºC	0.107 Ω
Temp. Rise @ Rated Load	60°C
Temp. Rise @ S.F. Load	74°C
Locked-rotor Power Factor	29
Rotor inertia	9.59 LB-FT2

Load Characteristics 380 V, 50 Hz, 40 HP

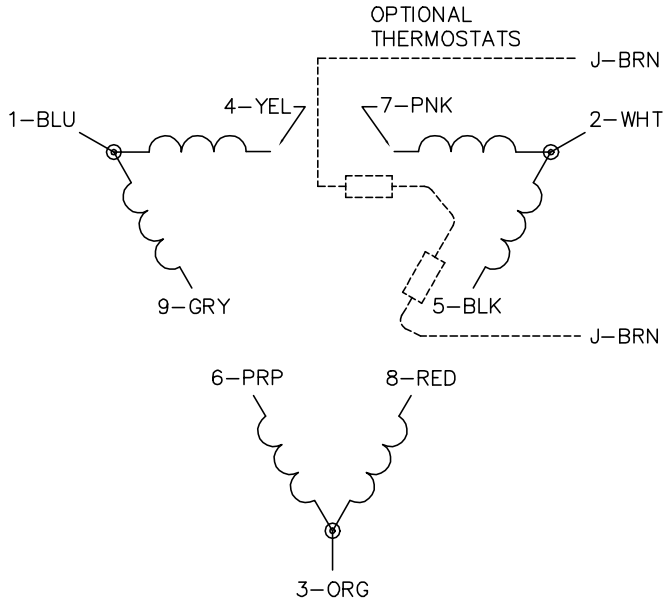
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	52	74	83	86	87	87
Efficiency	90	93.7	93.7	93.5	93.2	92.2
Speed	1495	1490	1484	1479	1472	1464
Line amperes	23.7	32.7	43.6	56.1	69.6	87.7

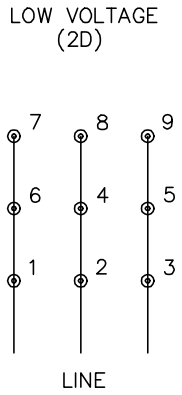

ABB Motors and Mechanical Inc.
WINDING # 12WGY141
40 HP 3 PH 50 HZ 1479 RPM 380 V 1272M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=383 PU=192 LR=267 LRA=389
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (40 HP)
11/14/2026 ACPERF, record # 42429

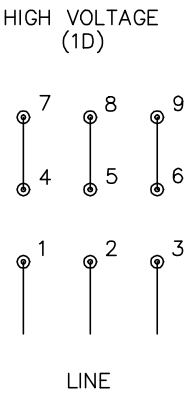

12LYL018
(1232-1276) = 32.07
15.57
5.51
5.25
Ø16.94
.50 KEY
3.88 LONG
Ø 2.125
2.124
8 HOLES
Ø.66
10.50
10.50
1.00
12.00
5.25
14.00
17.42
15.22
8.70
3.00
16.89
8.00
7.94
LEAD HOLE
1.50 NPT
6.25
6.25
11.60
7.25
14.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN 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


12LYM099
(1232–1272)
32.00
15.50
5.44
5.25
ø16.94
.50 KEY
3.88 LONG
2.125
2.124
8 HOLES
ø .656
10.50
10.50
12.00
14.00
5.250
17.40
15.23
8.69
3.22
PIPE PLUG
(EA. END)
16.70
8.00
LEAD HOLE
1.50 NPT
6.25
6.25
11.596
7.25
14.50
12LYM099
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.
REV. DESC: REMOVED "INV DUTY" FROM DESCRIPTION
REV. LTR: D
VERSION: 04
TDR: 000001136780
FILE: \AAA\00028\209
REVISED: 10:26:56 04/03/2020
BY: ENNINDO
MTL: –
BALDOR - RELIANCE®
HORZ XPFC 324–6T CL.I,GP.D
SH 1 of 1

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