ABB BALDOR RELIANCE

Customer information packet

EM7064T-C

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

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Specifications

Enclosure	XPFC
Frame	326T
Frame Material	Iron
Frequency	50.00 Hz
	60.00 Hz
Haz Area Class and Group	CLI GP C,D; CLII GP F,G
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	40.000 HP @ 50 HZ
	50.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1500 RPM @ 50 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
	CSA EEV
	UR
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	58.000 A @ 460.0 V
	56.000 A @ 380.0 V
	116.000 A @ 230.0 V
	112.000 A @ 190.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT

Part Detail

Revision	M
Type	AC
Mech. spec.	12R031
Base	
Status	INA/A
Elec. spec.	12WGY141
Layout	12LYR031
Eff. date	09-04-2020
CD Diagram	CD0180
Poles	04
Leads	9#8
Proprietary	False
Created date	06-07-2013

Efficiency @ 100% Load	94.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Haz Area Temp Code	T4
Heater Indicator	No Heater
High Voltage Full Load Amps	56.0 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 @ 6 AWG
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 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	1470 rpm

	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

NP0978XPSLEV									
NO.						**CC**	010A		
SER.						**TEMP CODE**	T4		
SPEC.	12R031Y141G1								
CAT.NO.									
HP	50//40								
VOLTS	230/460//190/380								
AMPS	116/58//112/56								
RPM	1775//1470				**MOTOR WEIGHT**		790		
HERTZ	60//50	**PH**	3	**CL**	B	**DE BRG**	6312		
SER.F.	1.00	**DES**	A	**CODE**	H	**ODE BRG**	6311		
FRAME	326T		**GREASE**	POLYREX EM					
RATING	40C AMB-CONT								
NEMA-NOM-EFF	94.5	**PF**	85						

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

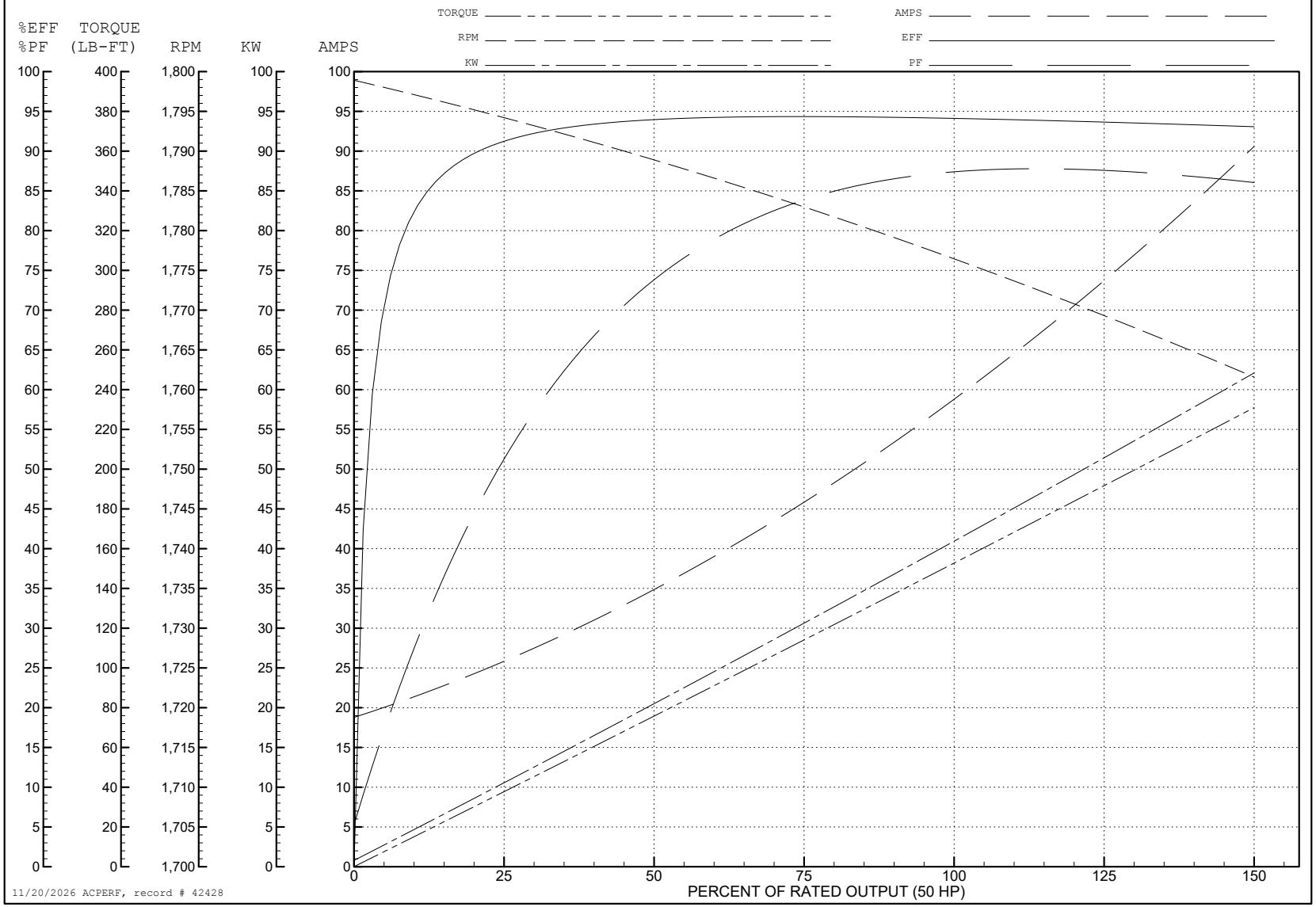
ABB Motors and Mechanical Inc.

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



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

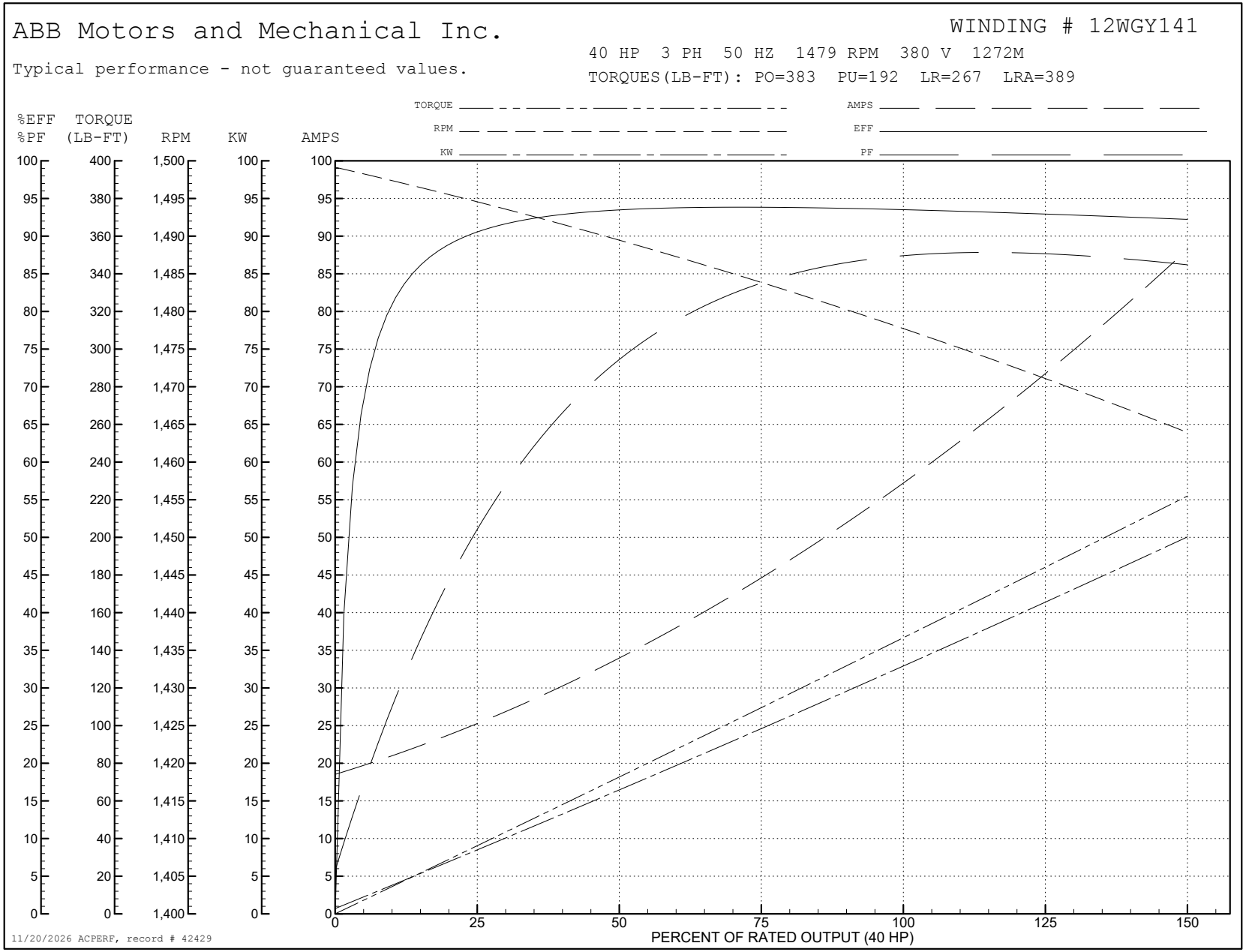
Winding: 12WGY141-R020	**Type:** 1272M	**Enclosure:** XPFC

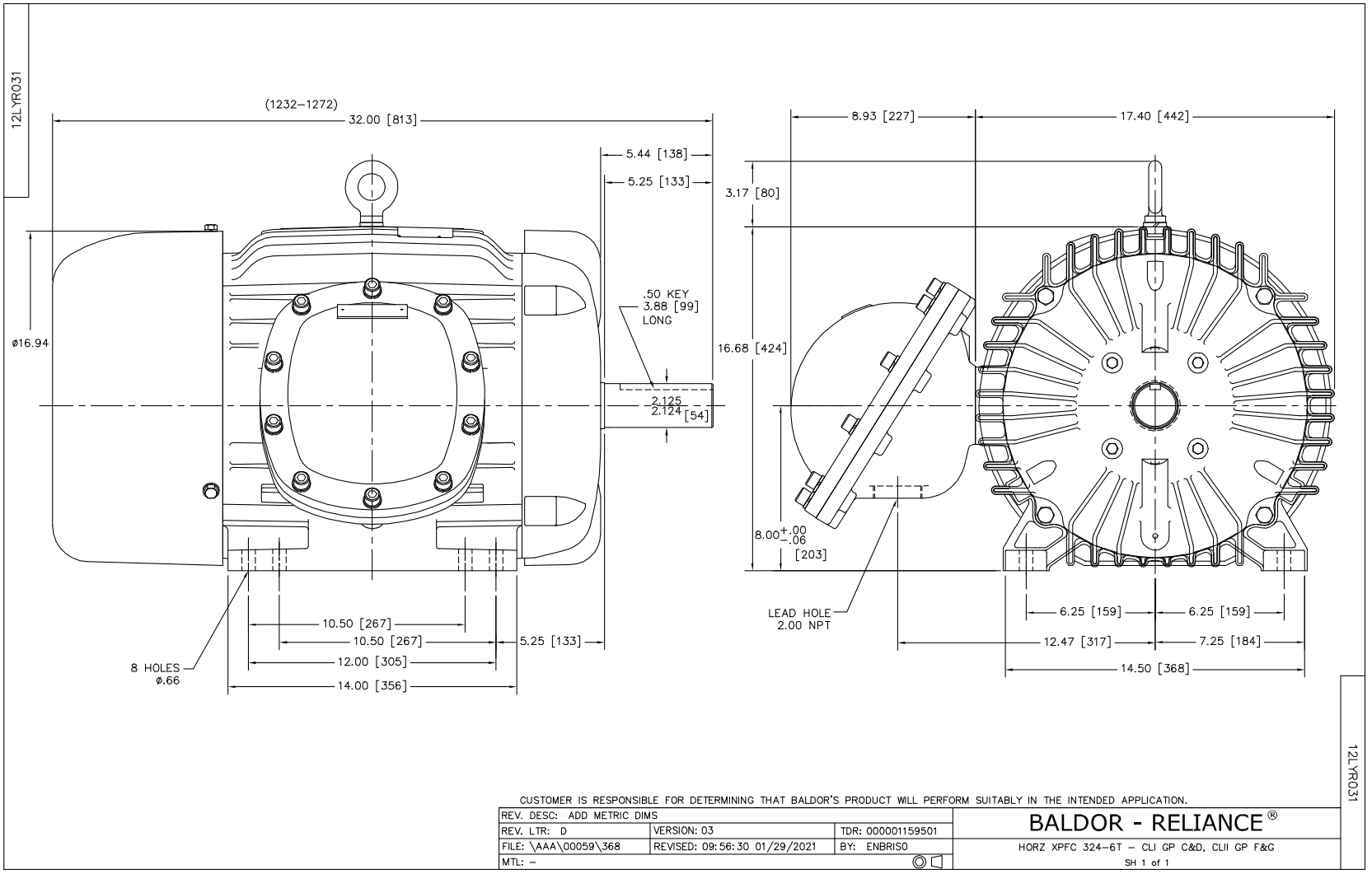
Nameplate Data			
Rated Output (HP)			50//40
Volts			230/460//190/380
Full Load Amps			116/58//112/56
R.P.M.			1775//1470
Hz	60//50	**Phase**	3
NEMA Design Code	A	**KVA Code**	G
Service Factor (S.F.)			1
NEMA Nom. Eff.	94.5	**Power Factor**	85
Rating - Duty			40C AMB-CONT
S.F. Amps			

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

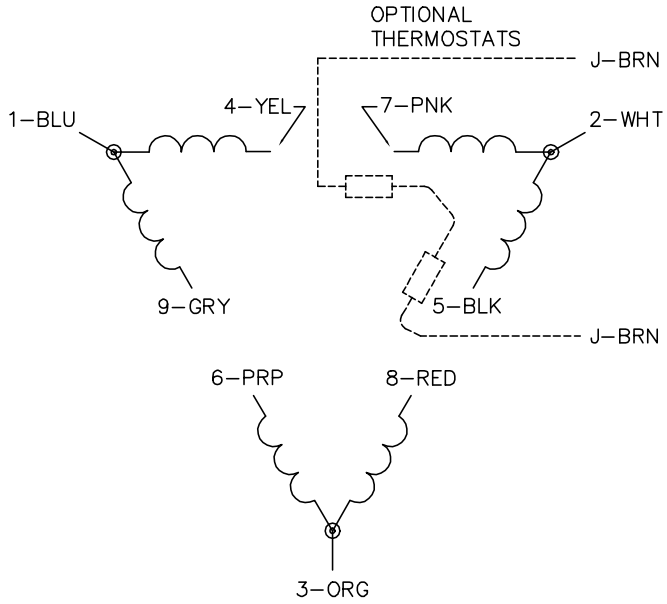
Load Characteristics 380 V, 50 Hz, 40 HP

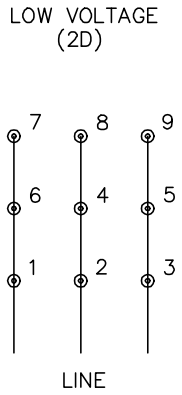
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	52	74	83	86	87	87
Efficiency	90	93.7	93.7	93.5	93.2	92.2
Speed	1495	1490	1484	1479	1472	1464
Line amperes	23.7	32.7	43.6	56.1	69.6	87.7

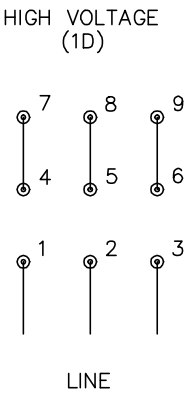

ABB Motors and Mechanical Inc.
WINDING # 12WGY141
Typical performance - not guaranteed values.
40 HP 3 PH 50 HZ 1479 RPM 380 V 1272M
TORQUES(LB-FT): PO=383 PU=192 LR=267 LRA=389
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (40 HP)
11/20/2026 ACPERF, record # 42429


12LYR031
(1232–1272)
32.00 [813]
5.44 [138]
5.25 [133]
3.17 [80]
ø16.94
.50 KEY
3.88 [99]
LONG
2.125
2.124 [54]
16.68 [424]
8.93 [227]
17.40 [442]
8.00 +.00 −.06
[203]
LEAD HOLE
2.00 NPT
10.50 [267]
10.50 [267]
12.00 [305]
14.00 [356]
5.25 [133]
8 HOLES
ø.66
6.25 [159]
6.25 [159]
12.47 [317]
7.25 [184]
14.50 [368]
12LYR031
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.
REV. DESC: ADD METRIC DIMS
REV. LTR: D
VERSION: 03
TDR: 000001159501
FILE: \AAA\00059\368
REVISED: 09:56:30 01/29/2021
BY: ENBRISO
MTL: –
BALDOR - RELIANCE®
HORZ XPFC 324–6T – CLI GP C&D, CLII GP F&G
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