ABB BALDOR RELIANCE

Customer information packet

M1710T

10/5HP, 1760/875RPM, 3PH, 60HZ, 254T, 0940M
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	254T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	5.000 HP @ 60 HZ
	10.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	UR
	CSA
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	13.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	11.3 a
Insulation Class	F
Inverter Code	Not Inverter

Part Detail

Revision	AK
Type	AC
Mech. spec.	09C101
Base	
Status	PRD/A
Elec. spec.	09WGZ144
Layout	09LYC101
Eff. date	10-07-2024
CD Diagram	CD0011
Poles	04/08
Leads	6#12
Proprietary	False
Created date	11-18-2005

KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	6 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0940M
Mounting Arrangement	F1
Number of Poles	4
	8
Overall Length	23.28 IN
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1760 rpm
	875 rpm
Speed Code	2S-1W-CT
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP1256L											
CAT.NO.	M1710T										
SPEC.	09C101Z144										
HP	10/5										
VOLTS	460										
AMP	13/11.3										
RPM	1760/875										
FRAME	254T		**HZ**	60			**PH**	3			
SER.F.	1.15	**CODE**	H	**DES**	B	**CLASS**	F				
NEMA-NOM-EFF		**PF**									
RATING	40C AMB-CONT										
CC											
DE	6309		**ODE**	6208							
ENCL	TEFC	**SN**									

Accessories

Part number	Description	Multiplier
09-1309	C FACE KIT	A8

AC Induction Motor Performance Data
Record # 36440
Typical performance - not guaranteed values

Winding: 09WGZ144-R002	**Type:** 0940M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Speed Connection**	
Rated Output (HP)			10/5	**Full Load Torque**	29.3 LB-FT
Volts			460	**Start Configuration**	direct on line
Full Load Amps			13/11.3	**Breakdown Torque**	113 LB-FT
R.P.M.			1760/875	**Pull-up Torque**	33 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	67.5 LB-FT
NEMA Design Code	B	**KVA Code**	H	**Starting Current**	80.8 A
Service Factor (S.F.)			1.15	**No-load Current**	5.72 A
NEMA Nom. Eff.	0	**Power Factor**	0	**Line-line Res. @ 25ºC**	1.57 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	45°C
S.F. Amps				**Temp. Rise @ S.F. Load**	54°C

Load Characteristics 460 V, 60 Hz, 10 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	45	66	77	82	84	85	83
Efficiency	78.8	86.2	87.9	87.9	87.1	85.7	87.4
Speed	1793	1787	1781	1774	1766	1756	1769
Line amperes	6.46	8.15	10.5	12.9	16	19.3	14.8

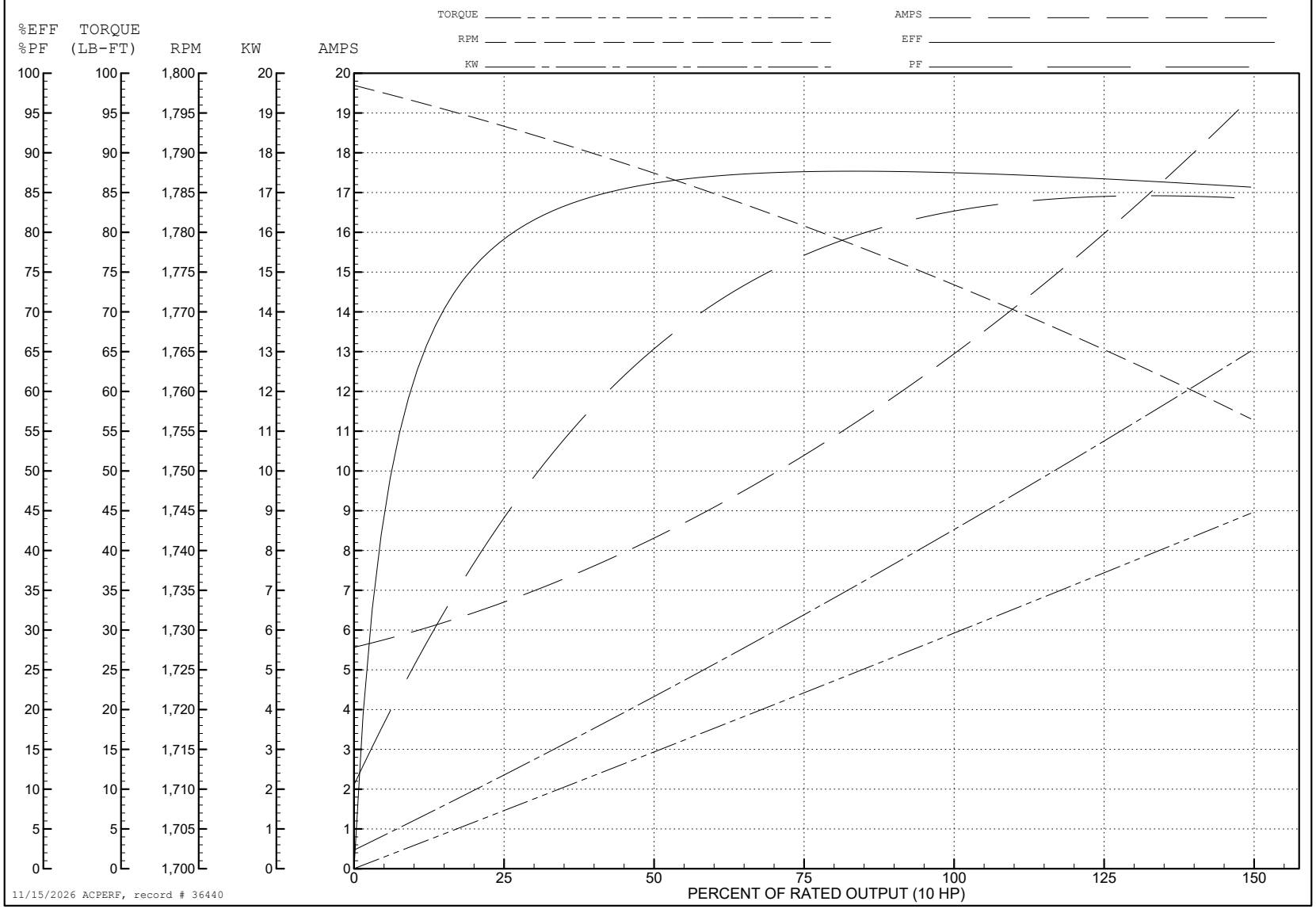
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WINDING # 09WGZ144

10 HP 3 PH 60 HZ 1774 RPM 460 V 0940M

TORQUES(LB-FT): PO=113 PU=33 LR=67.5 LRA=80.8

Typical performance - not guaranteed values.



11/15/2026 ACPERF, record # 36440

AC Induction Motor Performance Data
Record # 36441
Typical performance - not guaranteed values

Winding: 09WGZ144-R002	**Type:** 0940M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: Low Speed Connection**	
Rated Output (HP)			10/5	**Full Load Torque**	29.7 LB-FT
Volts			460	**Start Configuration**	direct on line
Full Load Amps			13/11.3	**Breakdown Torque**	96.3 LB-FT
R.P.M.			1760/875	**Pull-up Torque**	33.3 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	58.7 LB-FT
NEMA Design Code	B	**KVA Code**	H	**Starting Current**	40.9 A
Service Factor (S.F.)			1.15	**No-load Current**	8.67 A
NEMA Nom. Eff.	0	**Power Factor**	0	**Line-line Res. @ 25ºC**	2.06 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	55°C
S.F. Amps				**Temp. Rise @ S.F. Load**	64°C

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	20	32	43	50	56	60	54
Efficiency	64.6	76.7	80.8	82.1	82	80.8	82
Speed	896	892	888	883	878	870	880
Line amperes	8.82	9.37	10.2	11.3	12.7	14.6	12.1

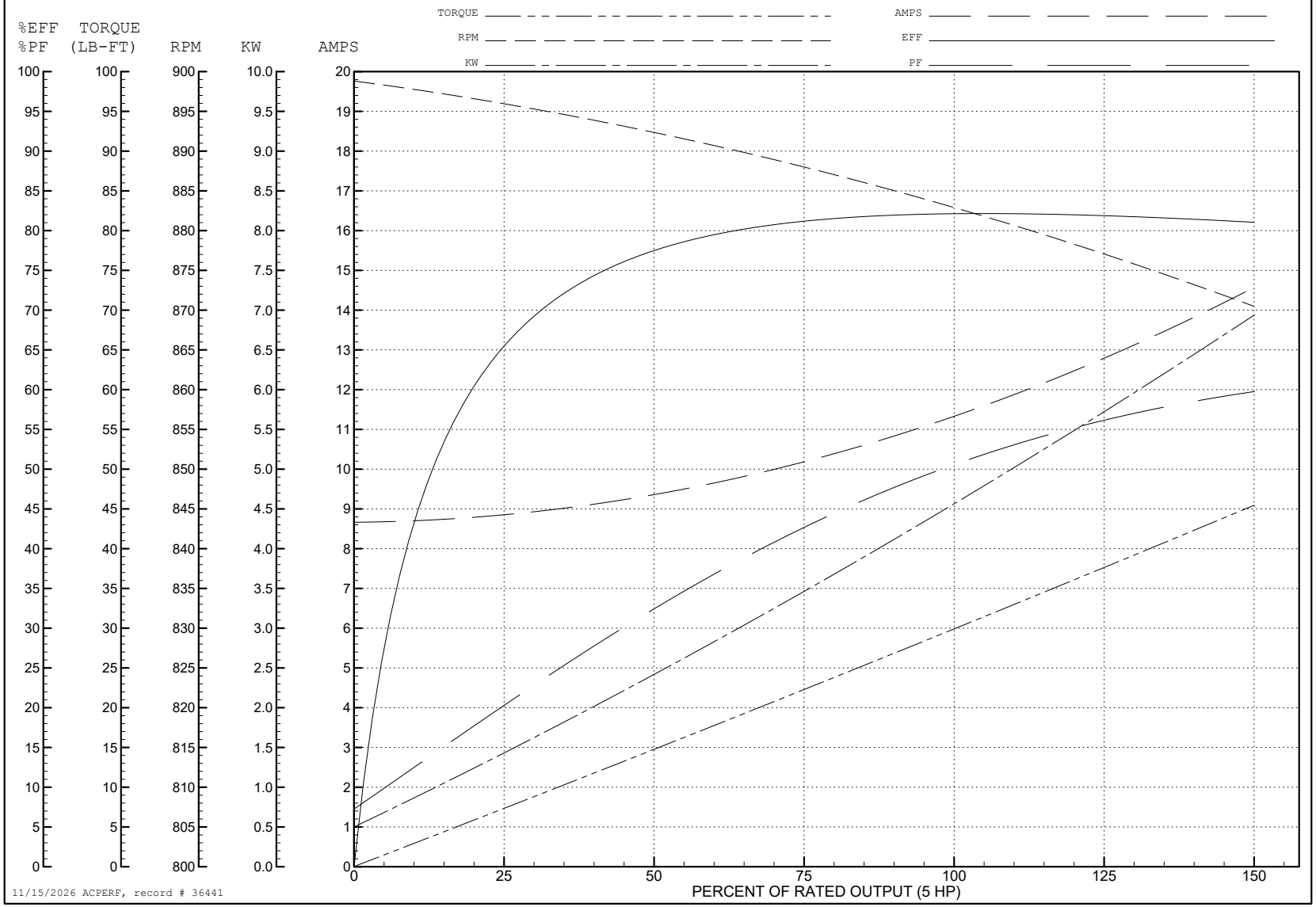
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WINDING # 09WGZ144

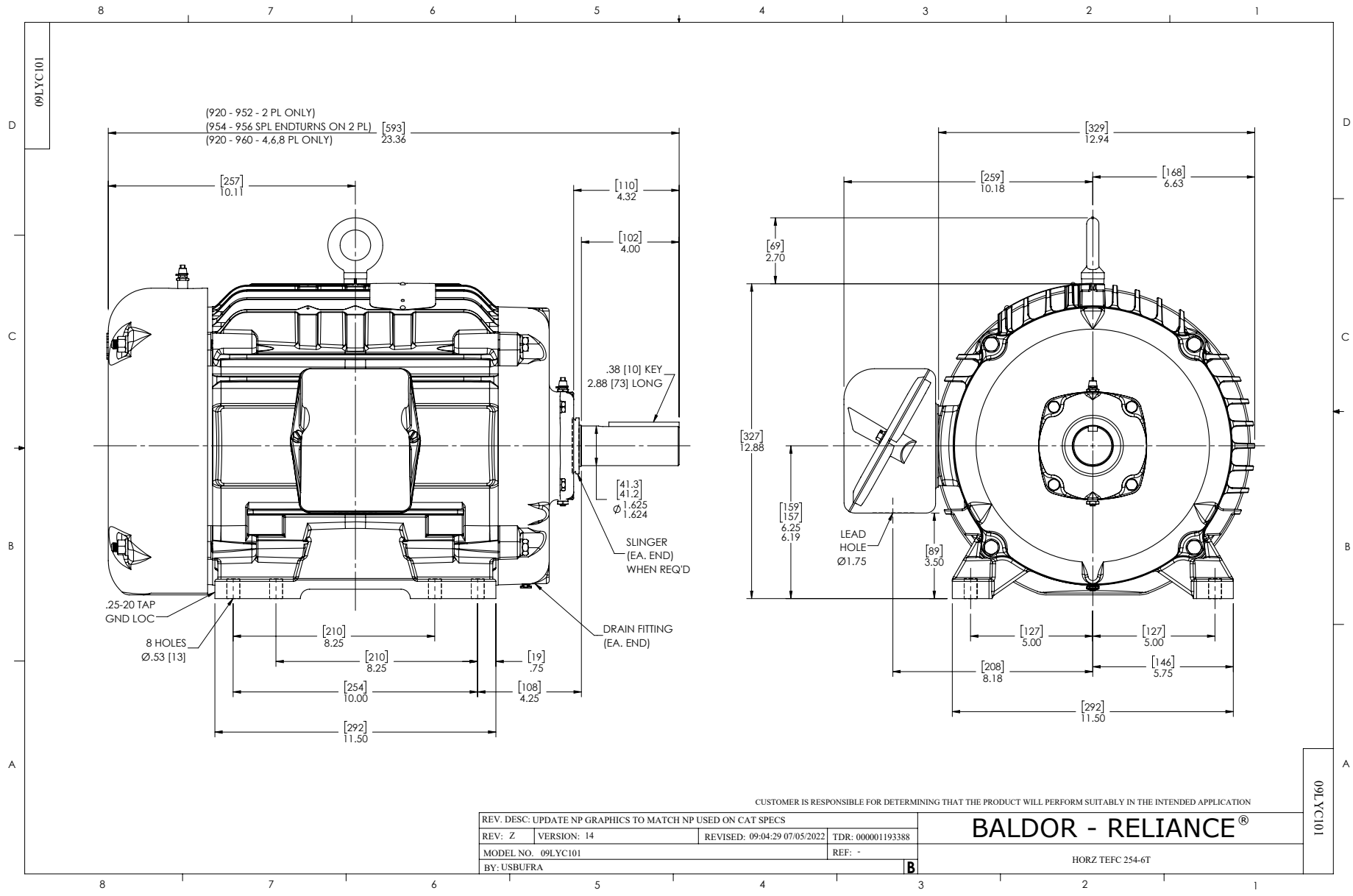
5 HP 3 PH 60 HZ 883 RPM 460 V 0940M

Typical performance - not guaranteed values.

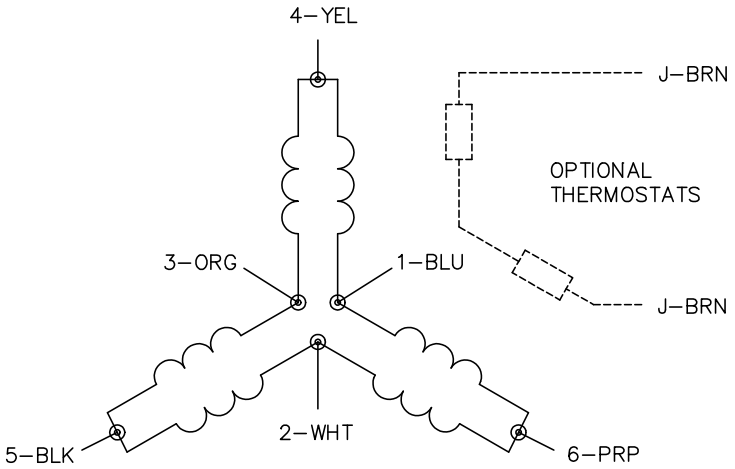
TORQUES(LB-FT): PO=96.3 PU=33.3 LR=58.7 LRA=40.9

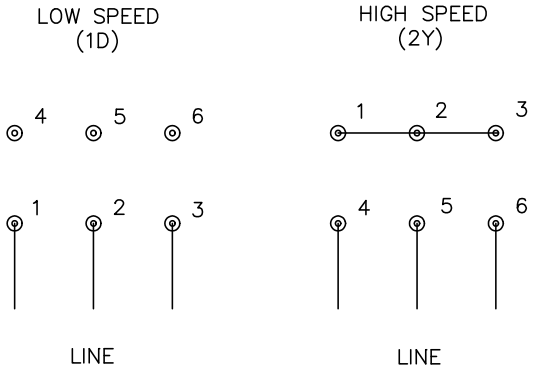


11/15/2026 ACPERF, record # 36441


09LYC101
(920 - 952 - 2 PL ONLY)
(954 - 956 SPL ENDTURNS ON 2 PL)
(920 - 960 - 4,6,8 PL ONLY)
[593] 23.36
[257] 10.11
[110] 4.32
[102] 4.00
.38 [10] KEY
2.88 [73] LONG
[41.3] [41.2] Ø 1.625 1.624
SLINGER (EA. END) WHEN REQ'D
.25-20 TAP GND LOC
8 HOLES Ø.53 [13]
DRAIN FITTING (EA. END)
[210] 8.25
[210] 8.25
[19] .75
[254] 10.00
[108] 4.25
[292] 11.50
[329] 12.94
[259] 10.18
[168] 6.63
[69] 2.70
[327] 12.88
[159] [157] 6.25 6.19
LEAD HOLE Ø1.75
[89] 3.50
[127] 5.00
[127] 5.00
[208] 8.18
[146] 5.75
[292] 11.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: UPDATE NP GRAPHICS TO MATCH NP USED ON CAT SPECS
REV: Z
VERSION: 14
REVISED: 09:04:29 07/05/2022
TDR: 000001193388
MODEL NO. 09LYC101
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
HORZ TEFC 254-6T
09LYC101

CD0011





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.

CD0011

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: F	BY: JLP	REVISED: 01/21/99 5:04	TDR: 0171435
CD0011		FILE: DWG\142.wg	MDL: –
		MTL: –	3PH, SV, 6 LEADS, 2–SPEED 1–WINDING CONSTANT TORQUE