ABB BALDOR RELIANCE

Customer information packet

M1711T

15-7.5HP, 1760/875RPM, 3PH, 60HZ, 256T, 0944M
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	256T
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	7.500 HP @ 60 HZ
	15.000 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	19.200 A @ 460.0 V
Design Code	A
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	16.8 a
Insulation Class	F
Inverter Code	Not Inverter

Part Detail

Revision	AV
Type	AC
Mech. spec.	09C101
Base	
Status	PRD/A
Elec. spec.	09WGX235
Layout	09LYC101
Eff. date	10-07-2024
CD Diagram	CD0011
Poles	04/08
Leads	6#12
Proprietary	False
Created date	01-01-0001

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	0944M
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.	M1711T											
SPEC.	09C101X235											
HP	15-7.5											
VOLTS	460											
AMP	19.2/16.8											
RPM	1760/875											
FRAME	256T		**HZ**	60			**PH**	3				
SER.F.	1.15	**CODE**	H	**DES**	A	**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 # 36433
Typical performance - not guaranteed values

Winding: 09WGX235-R002	**Type:** 0944M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Speed Connection**	
Rated Output (HP)			15/7.5	**Full Load Torque**	45 LB-FT
Volts			460	**Start Configuration**	direct on line
Full Load Amps			19.2/16.8	**Breakdown Torque**	135 LB-FT
R.P.M.			1760/875	**Pull-up Torque**	49.6 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	73.6 LB-FT
NEMA Design Code	A	**KVA Code**	H	**Starting Current**	129 A
Service Factor (S.F.)			1.15	**No-load Current**	8.41 A
NEMA Nom. Eff.	0	**Power Factor**	0	**Line-line Res. @ 25ºC**	1.1904 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	69°C
S.F. Amps				**Temp. Rise @ S.F. Load**	84°C
				Locked-rotor Power Factor	55.3

Load Characteristics 460 V, 60 Hz, 15 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	46	68	78	84	87	88	86
Efficiency	80.5	86.7	87.8	87.4	86.2	84.7	86.7
Speed	1793	1786	1779	1771	1762	1751	1766
Line amperes	9.74	12.18	15.42	19.17	23.54	28.14	21.8

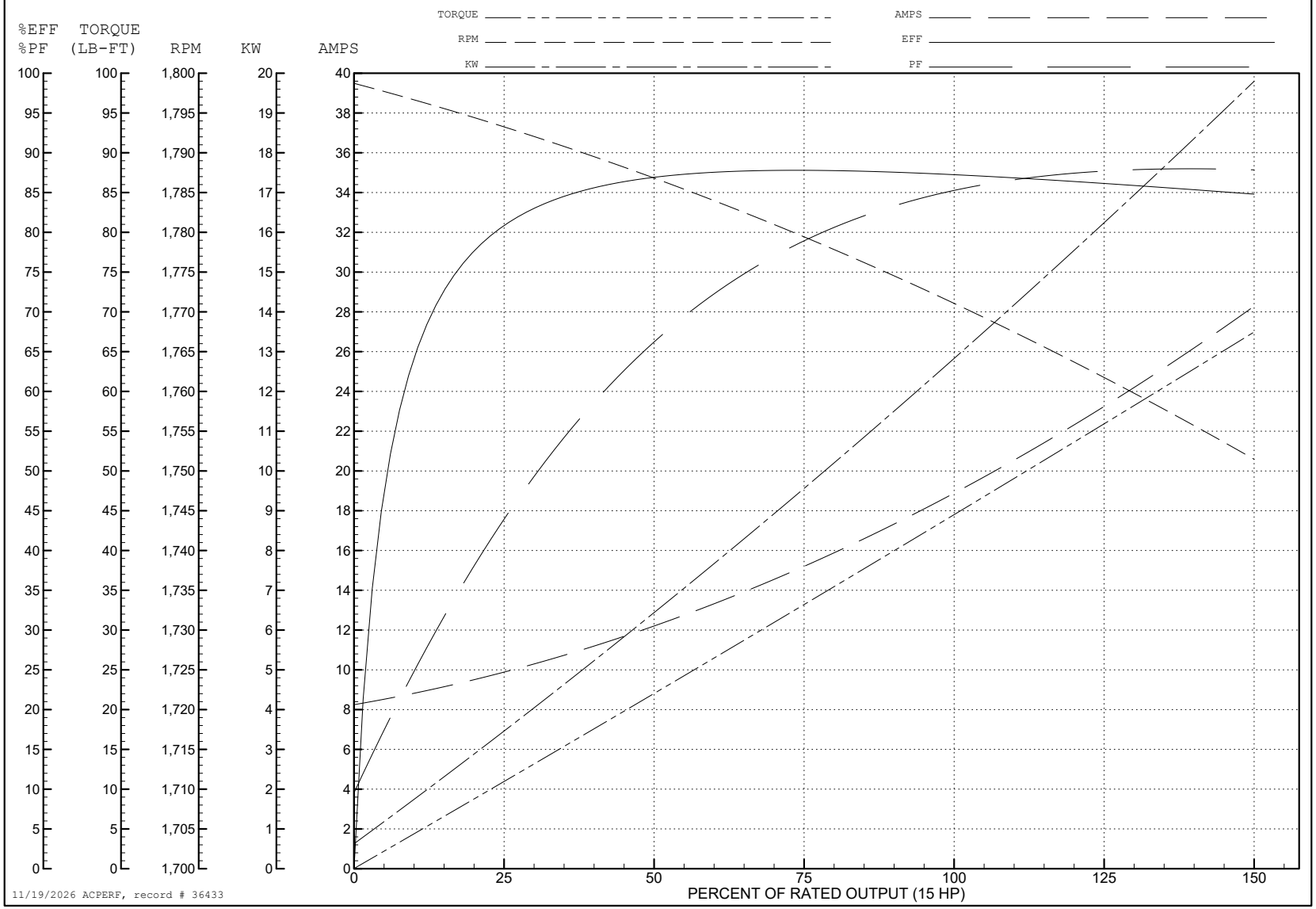
ABB Motors and Mechanical Inc.

WINDING # 09WGX235

15 HP 3 PH 60 HZ 1771 RPM 460 V 0944M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=135 PU=49.6 LR=73.6 LRA=129



AC Induction Motor Performance Data
Record # 36434
Typical performance - not guaranteed values

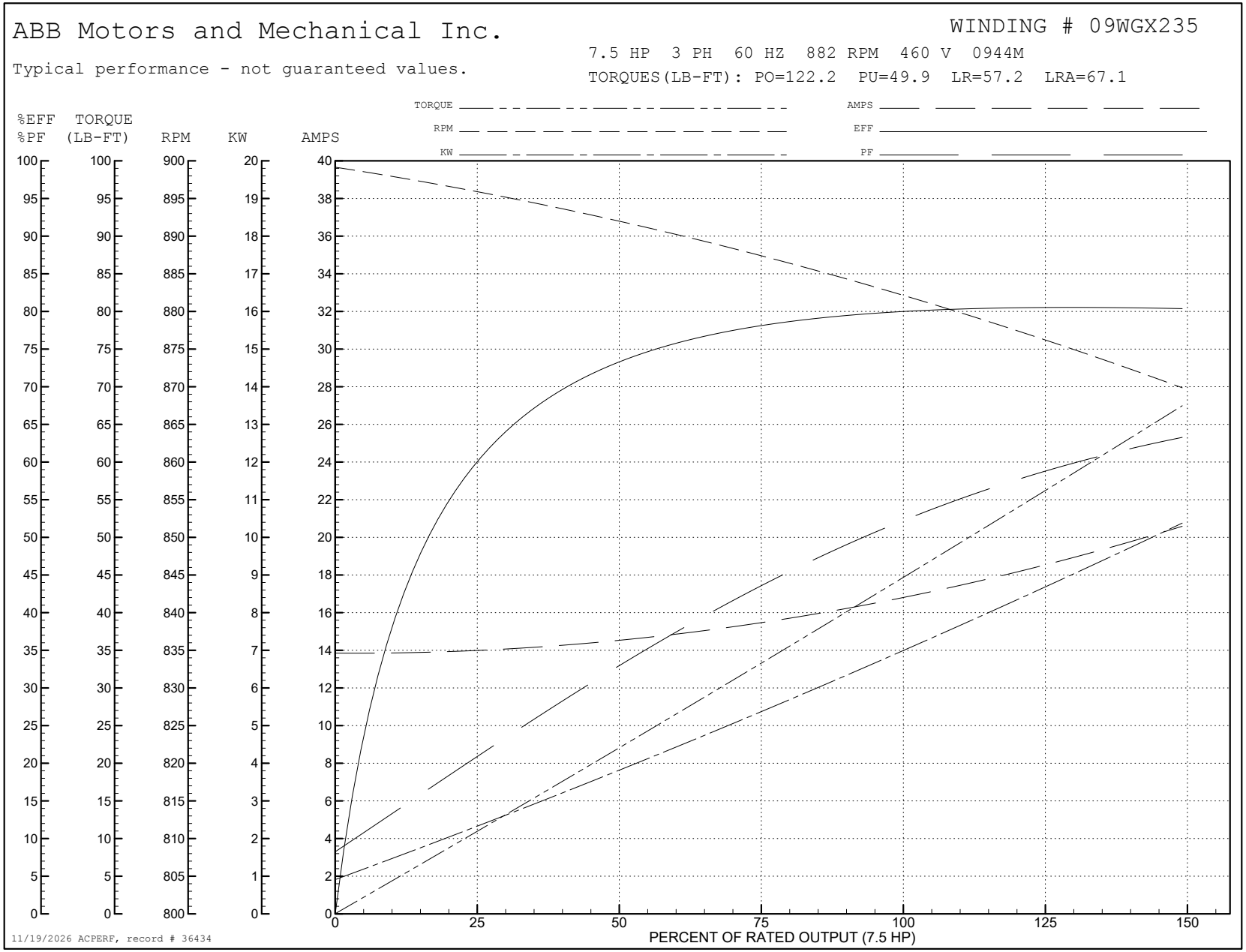
Winding: 09WGX235-R002	**Type:** 0944M	**Enclosure:** TEFC

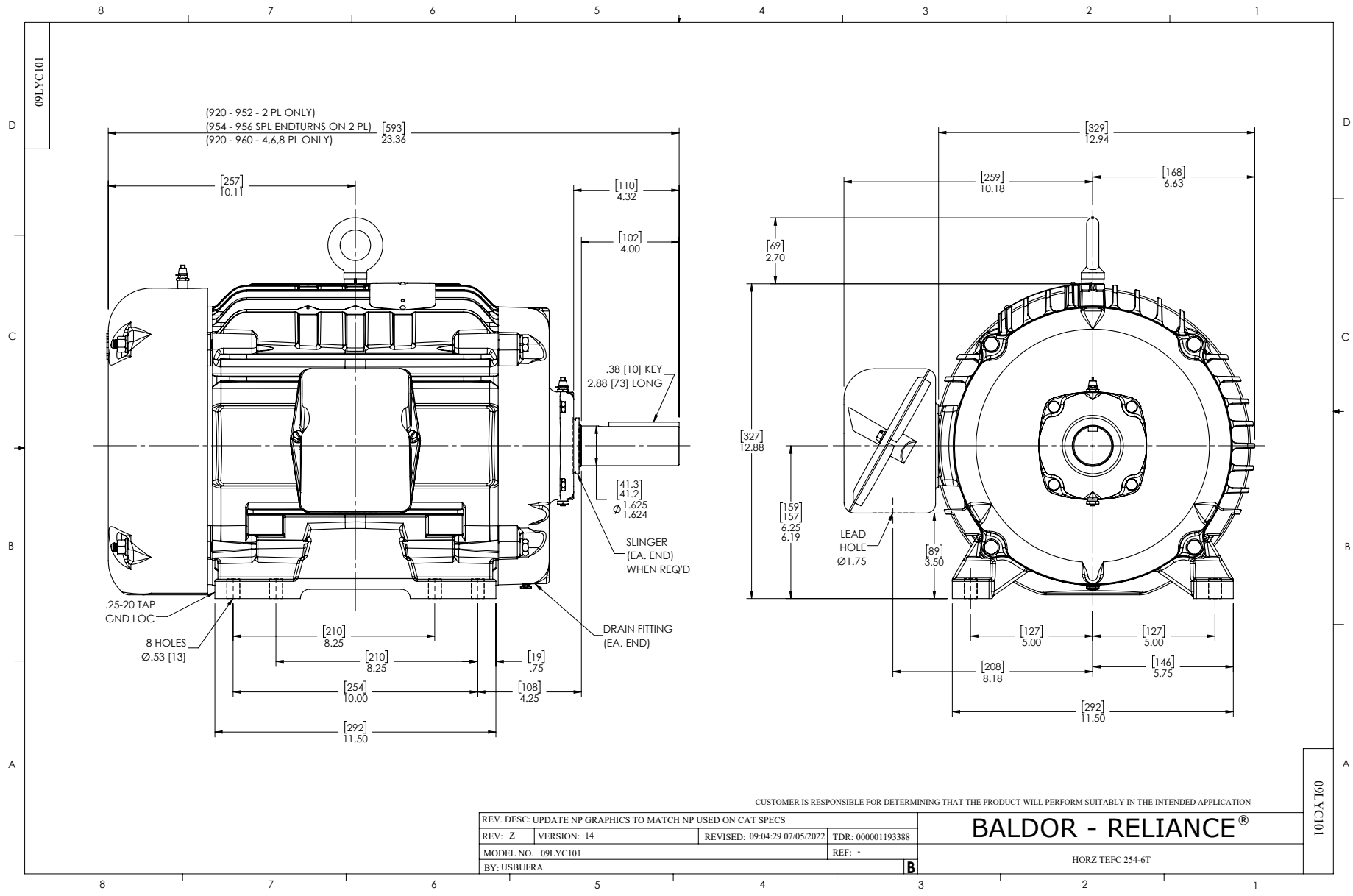
Nameplate Data			
Rated Output (HP)			15/7.5
Volts			460
Full Load Amps			19.2/16.8
R.P.M.			1760/875
Hz	60	**Phase**	3
NEMA Design Code	A	**KVA Code**	H
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	0	**Power Factor**	0
Rating - Duty			40C AMB-CONT
S.F. Amps			

460 V, 60 Hz: Low Speed Connection	
Full Load Torque	45 LB-FT
Start Configuration	direct on line
Breakdown Torque	122.2 LB-FT
Pull-up Torque	49.9 LB-FT
Locked-rotor Torque	57.2 LB-FT
Starting Current	67.1 A
No-load Current	13.84 A
Line-line Res. @ 25ºC	1.585 Ω
Temp. Rise @ Rated Load	84°C
Temp. Rise @ S.F. Load	95°C
Locked-rotor Power Factor	42.2

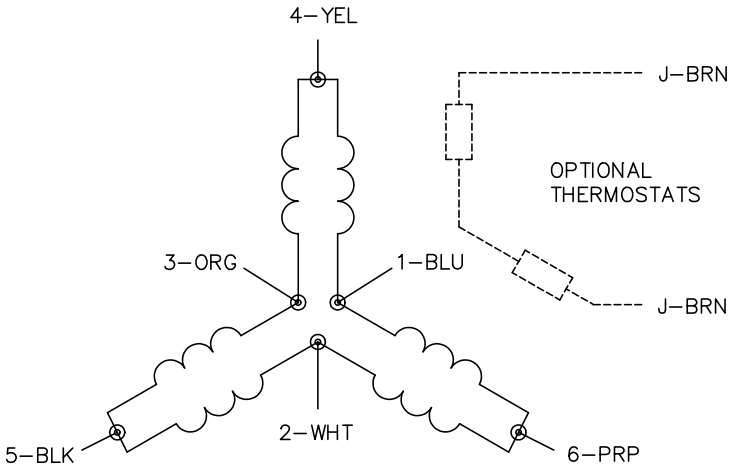
Load Characteristics 460 V, 60 Hz, 7.5 HP

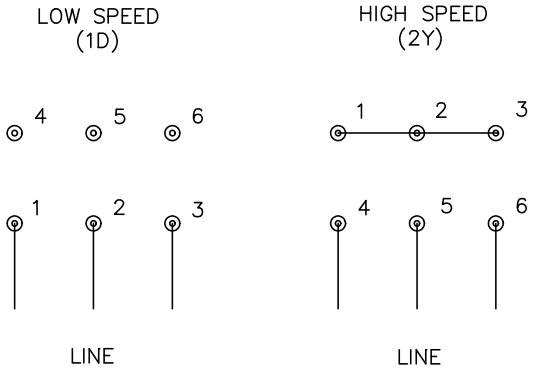
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	21	33	44	52	59	63	56
Efficiency	59.6	73.3	78.3	80.3	80.7	80.2	80.5
Speed	896	892	887	882	876	870	878
Line amperes	14	14.59	15.52	16.8	18.57	20.59	17.9


ABB Motors and Mechanical Inc.
WINDING # 09WGX235
7.5 HP 3 PH 60 HZ 882 RPM 460 V 0944M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=122.2 PU=49.9 LR=57.2 LRA=67.1
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (7.5 HP)
11/19/2026 ACPERF, record # 36434


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.

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

CD0011