ABB BALDOR RELIANCE

Customer information packet

CEM2333T

15HP, 1765RPM, 3PH, 60HZ, 254TC, 0944M, TEFC, F
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	254TC
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	15.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	230.0 V @ 60 HZ
Agency Approvals	CURUSEEV
	NEMA PREMIUM
	NEMA PREMIUM (OLD LOGO)
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	36.200 A @ 230.0 V
	38.000 A @ 208.0 V
	18.100 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	92.4 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	G
Type	AC
Mech. spec.	09C102
Base	
Status	PRD/A
Elec. spec.	09WGT597
Layout	09LYC102
Eff. date	09-30-2026
CD Diagram	CD0005
Poles	04
Leads	9#12
Proprietary	False
Created date	11-11-2020

High Voltage Full Load Amps	18.1 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0944M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	23.86 IN
Power Factor	84
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	1.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1765 rpm
Speed Code	Single Speed
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

NP3441LUA										
CAT.NO.	CEM2333T									
SPEC	09C102T597G1									
HP	15									
VOLTS	230/460									
AMPS	36.2/18.1									
RPM	1765									
FRAME	254TC	**HZ**	60			**PH**	3			
SF	1.15	**CODE**	H	**DES**	A	**CLASS**	F			
NEMA NOM. EFF	92.4	**PF**	84							
RATING	40C AMB-CONT									
CC	010A									
ENCL	TEFC	**SER**								
DE	6309	**ODE**	6208							
VPWM INVERTER READY	SFA 41/20.4									
CT6-60H(10:1)VT3-60H(20:1										
	50HZ 15HP 190/380V 42.2/21.1A									SF1.0

AC Induction Motor Performance Data
Record # 93306
Typical performance - not guaranteed values

Winding: 09WGT597-R001	**Type:** 0944M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			15	**Full Load Torque**	44.59 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			36.2/18.1	**Breakdown Torque**	151 LB-FT
R.P.M.			1765	**Pull-up Torque**	76.5 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	84.9 LB-FT
NEMA Design Code	A	**KVA Code**	H	**Starting Current**	131 A
Service Factor (S.F.)			1.15	**No-load Current**	7.72 A
NEMA Nom. Eff.	92.4	**Power Factor**	84	**Line-line Res. @ 25ºC**	0.61892 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	50°C
S.F. Amps			41/20.4	**Temp. Rise @ S.F. Load**	61°C
				Locked-rotor Power Factor	33.3

Load Characteristics 460 V, 60 Hz, 15 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	46	68	78	83	85	86	84
Efficiency	87.5	91.8	92.6	92.4	91.8	90.8	92
Speed	1791.8	1784.7	1777	1768.8	1759.2	1749.3	1763
Line amperes	8.82	11.3	14.6	18.3	22.4	26.9	20.8

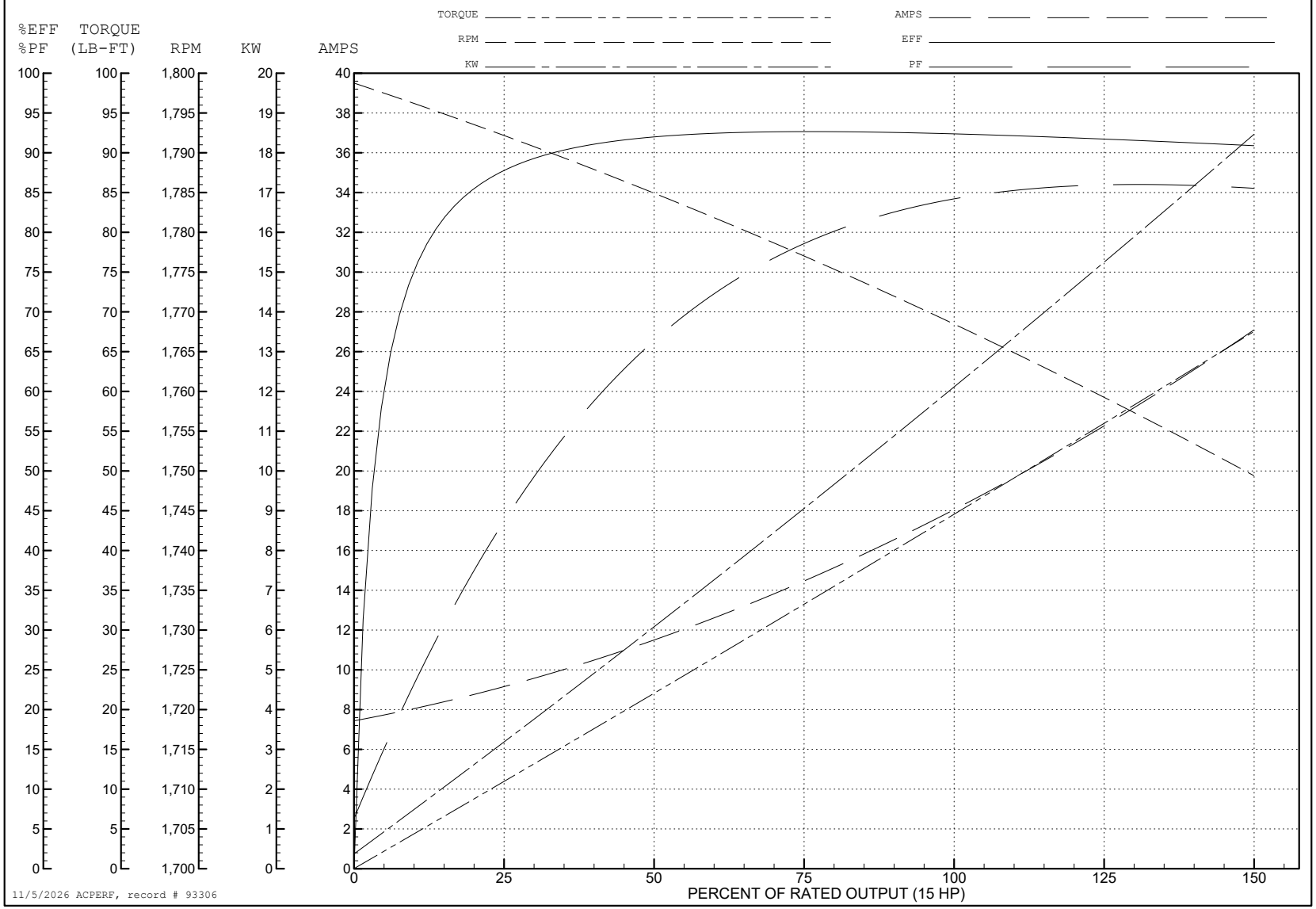
ABB Motors and Mechanical Inc.

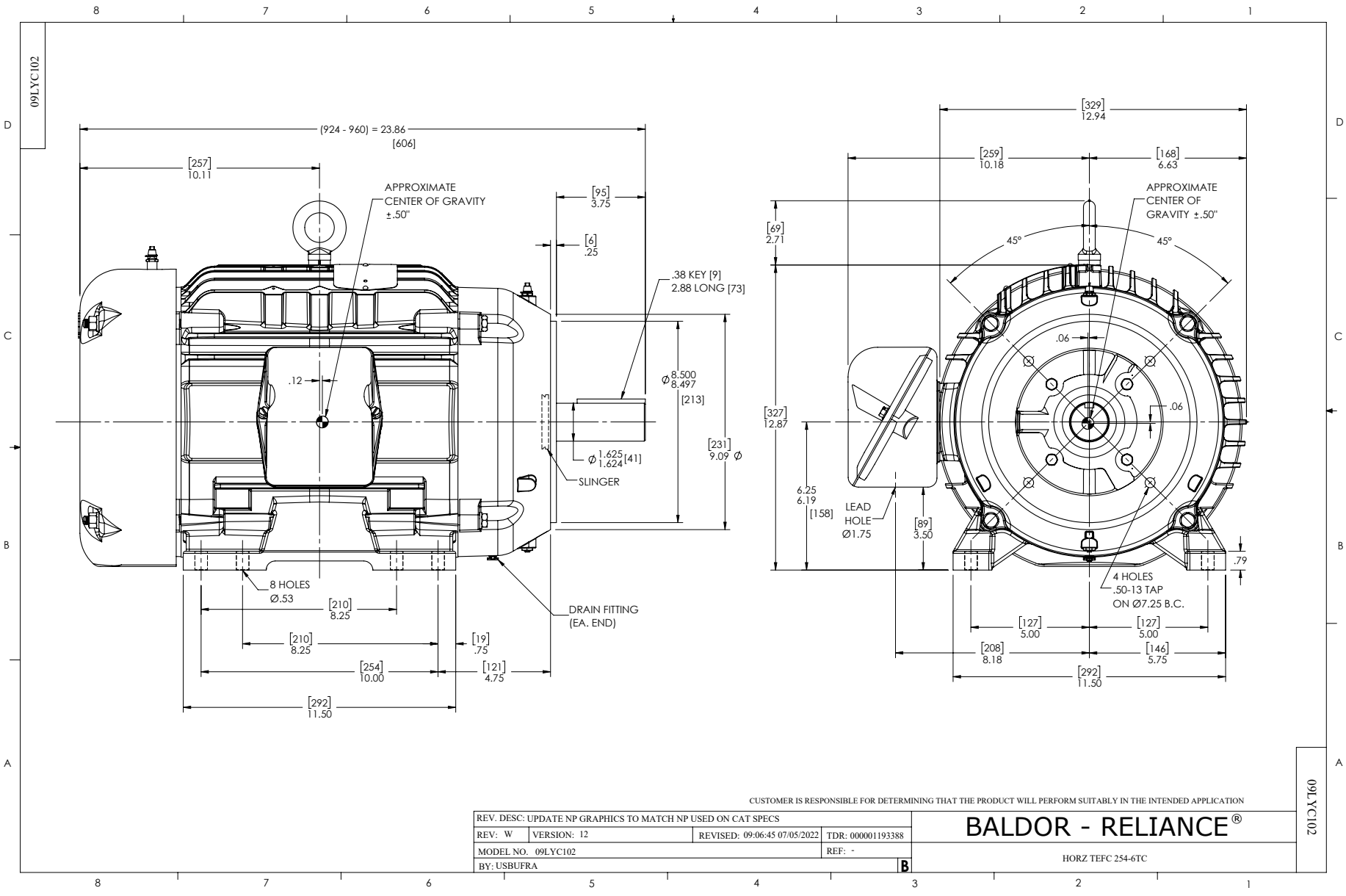
WINDING # 09WGT597

15 HP 3 PH 60 HZ 1765 RPM 460 V 0944M

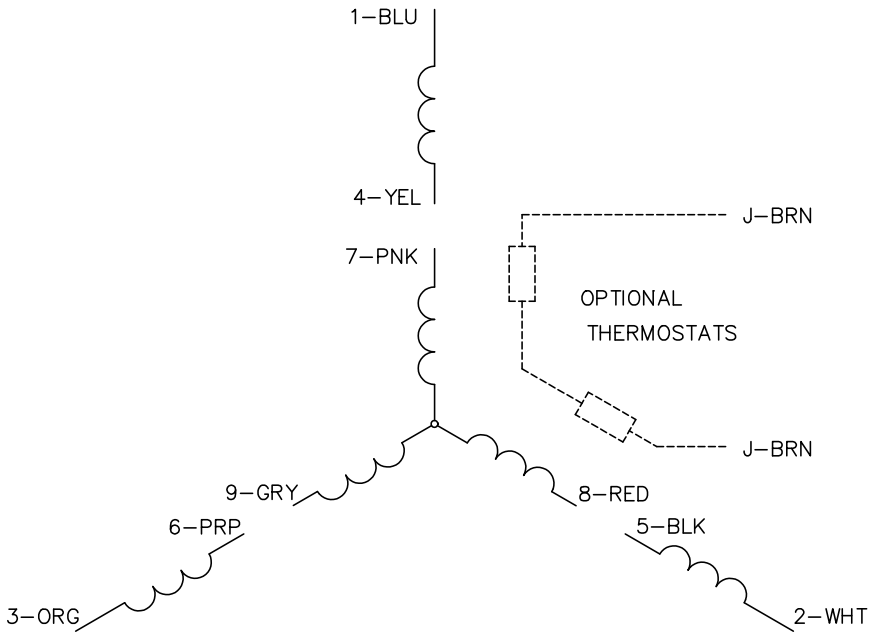
Typical performance - not guaranteed values.

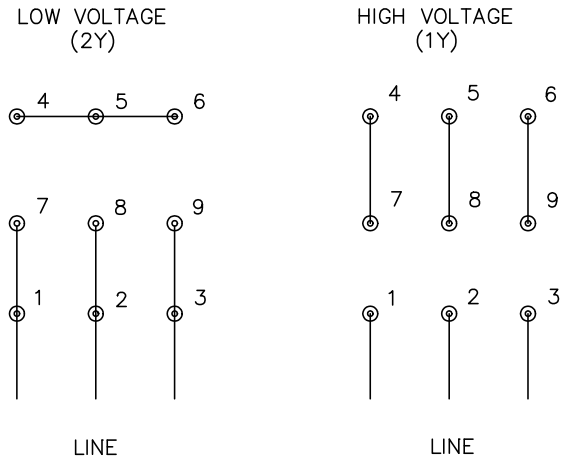
TORQUES(LB-FT): PO=151 PU=76.5 LR=84.9 LRA=131




09LYC102
(924 - 960) = 23.86
[606]
[257]
10.11
APPROXIMATE
CENTER OF GRAVITY
±.50"
[95]
3.75
[6]
.25
.38 KEY [9]
2.88 LONG [73]
.12
Ø 8.500
8.497
[213]
[231]
9.09 Ø
Ø 1.625
1.624 [41]
SLINGER
8 HOLES
Ø.53
[210]
8.25
[210]
8.25
[19]
.75
[254]
10.00
[121]
4.75
[292]
11.50
DRAIN FITTING
(EA. END)
[329]
12.94
[259]
10.18
[168]
6.63
APPROXIMATE
CENTER OF
GRAVITY ±.50"
[69]
2.71
45°
45°
.06
.06
[327]
12.87
6.25
6.19
[158]
LEAD
HOLE
Ø1.75
[89]
3.50
.79
4 HOLES
.50-13 TAP
ON Ø7.25 B.C.
[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: W
VERSION: 12
REVISED: 09:06:45 07/05/2022
TDR: 000001193388
MODEL NO. 09LYC102
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
HORZ TEFC 254-6TC
09LYC102

CD0005





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.

CD0005

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
CD0005		FILE: AAA00005140	MDL: –
		MTL: –	3PH, DV, 9 LEADS