ABB BALDOR RELIANCE

Customer information packet

CEM2394T

15HP, 3520RPM, 3PH, 60HZ, 254TC, 0930M, 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	3600 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	35.000 A @ 230.0 V
	38.000 A @ 208.0 V
	17.500 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	AG
Type	AC
Mech. spec.	09C102
Base	
Status	PRD/A
Elec. spec.	09WGZ602
Layout	09LYC102
Eff. date	03-19-2024
CD Diagram	CD0180
Poles	02
Leads	9#12
Proprietary	False
Created date	06-09-2010

Heater Indicator	No Heater
High Voltage Full Load Amps	17.5 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0930M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	23.86 IN
Power Factor	87
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
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	3520 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.	CEM2394T								
SPEC	09C102Z602G1								
HP	15								
VOLTS	230/460								
AMPS	35/17.5								
RPM	3520								
FRAME	254TC	**HZ**	60	**PH**	3				
SF	1.15	**CODE**	G	**DES**	B	**CLASS**	F		
NEMA NOM. EFF	91	**PF**	87						
RATING	40C AMB-CONT								
CC	010A								
ENCL	TEFC	**SER**							
DE	6309	**ODE**	6208						
VPWM INVERTER READY									
CT6-60H(10:1)VT3-60H(20:1									
	50Hz 15HP 190/380V 42/21A								SF1.0

AC Induction Motor Performance Data
Record # 31412
Typical performance - not guaranteed values

Winding: 09WGZ602-R001	**Type:** 0930M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			15	**Full Load Torque**	22.1 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			35/17.5	**Breakdown Torque**	105 LB-FT
R.P.M.			3525	**Pull-up Torque**	26.2 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	36.3 LB-FT
NEMA Design Code	B	**KVA Code**	G	**Starting Current**	110 A
Service Factor (S.F.)			1.15	**No-load Current**	5.58 A
NEMA Nom. Eff.	91	**Power Factor**	87	**Line-line Res. @ 25ºC**	0.68654 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	63°C
S.F. Amps				**Temp. Rise @ S.F. Load**	78°C
				Locked-rotor Power Factor	30
				Rotor inertia	0.766 lb-ft²

Load Characteristics 460 V, 60 Hz, 15 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	55	77	85	87	89	89	88
Efficiency	86.4	91	91.6	91	90	88.6	90.4
Speed	3582.7	3563.6	3542.7	3520.9	3495.8	3468.3	3506
Line amperes	6.93	9.78	13.5	17.5	21.6	26.4	20

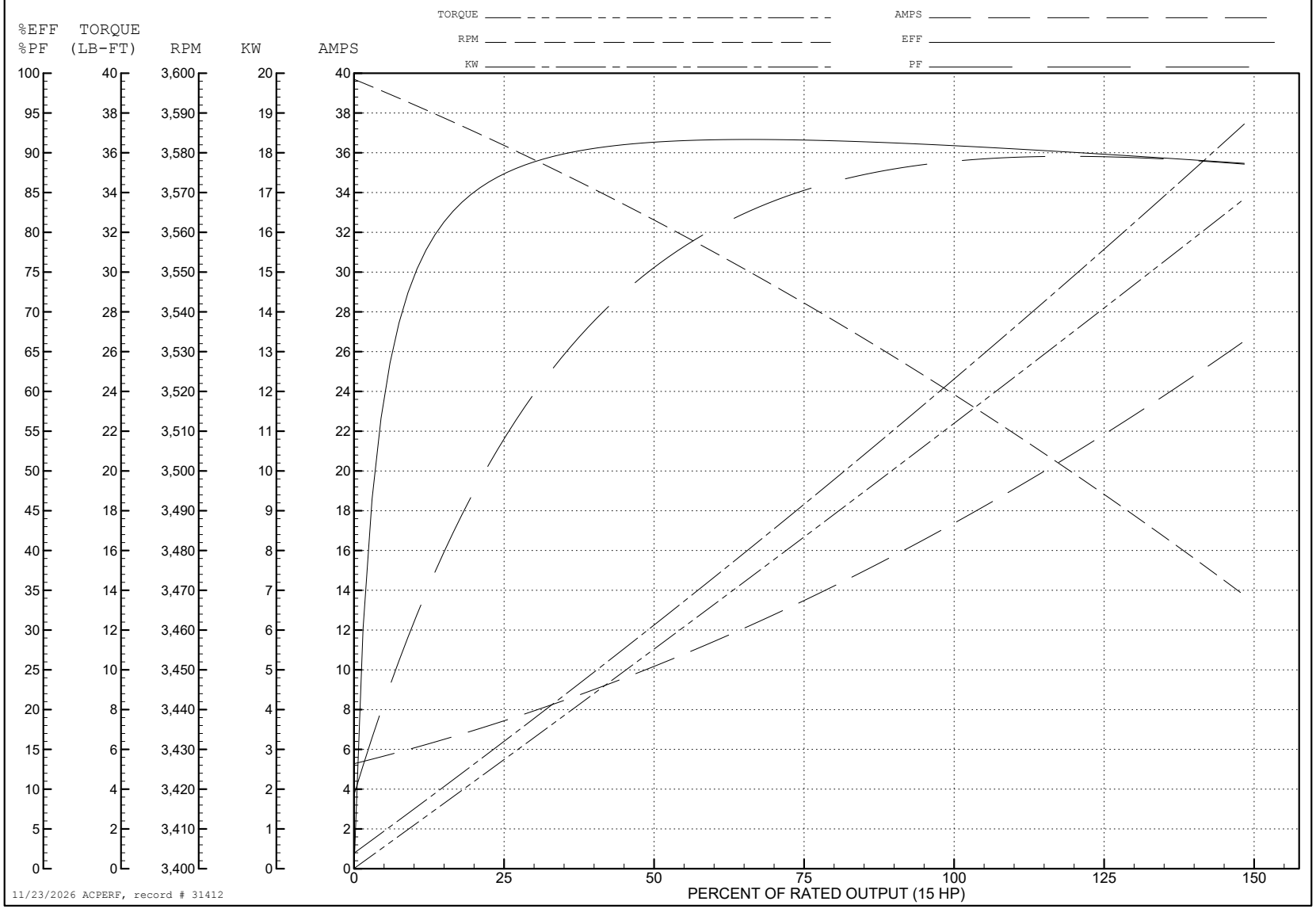
ABB Motors and Mechanical Inc.

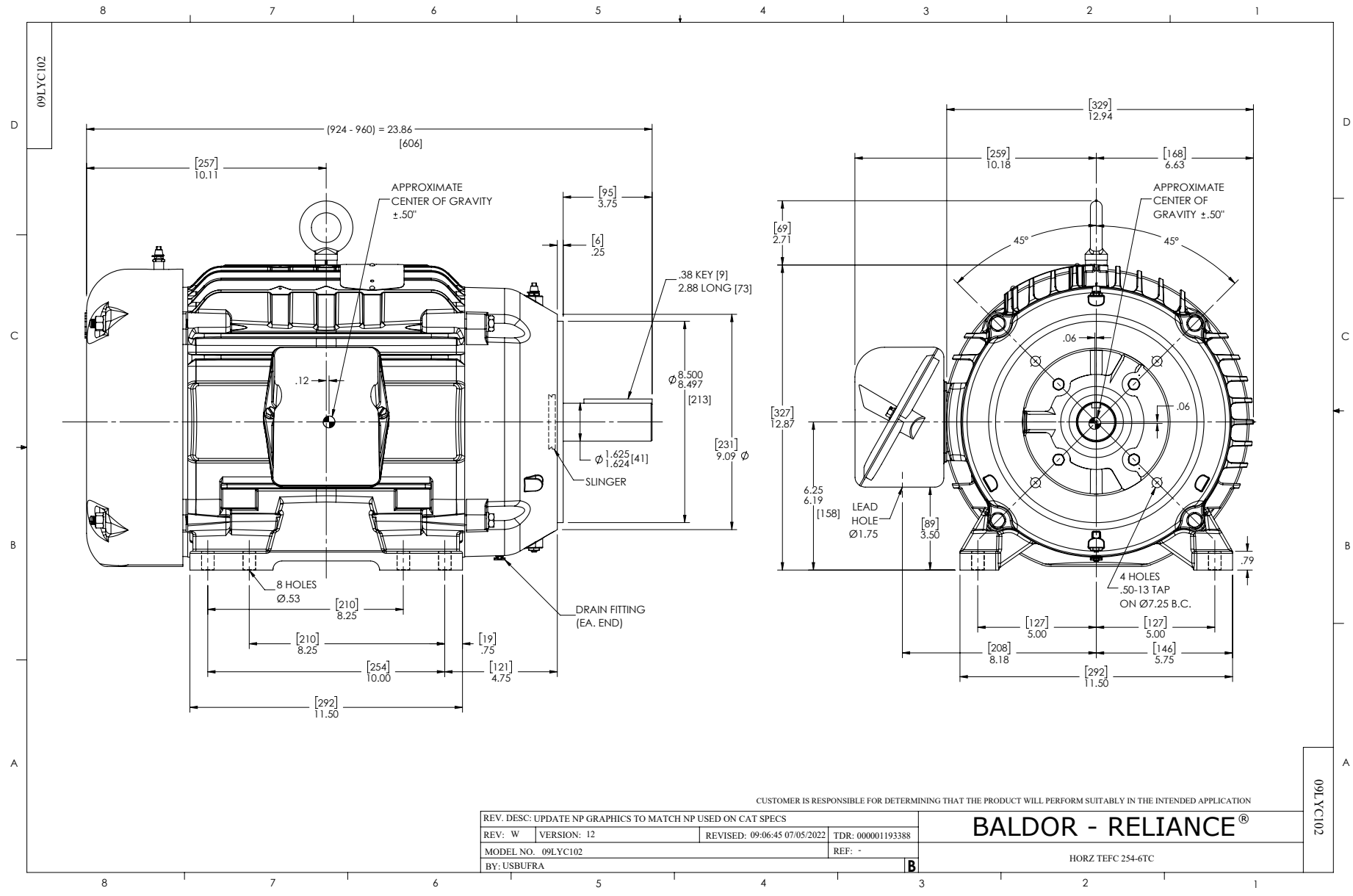
WINDING # 09WGZ602

15 HP 3 PH 60 HZ 3525 RPM 460 V 0930M

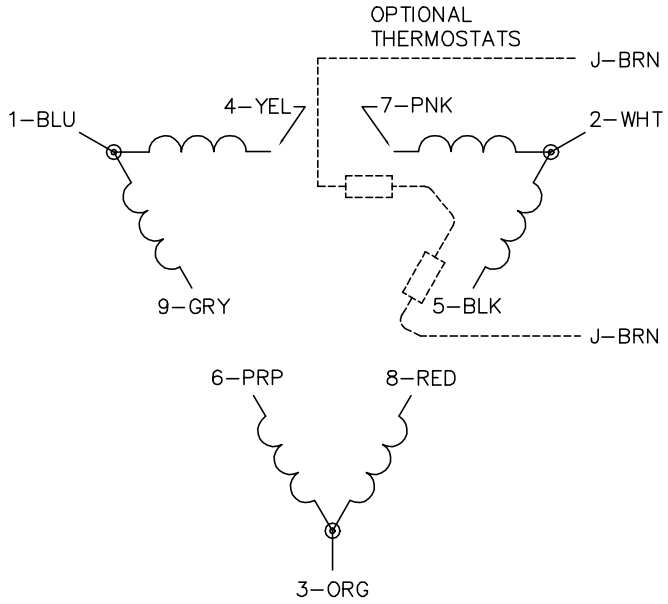
Typical performance - not guaranteed values.

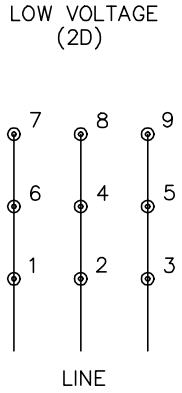
TORQUES(LB-FT): PO=105 PU=26.2 LR=36.3 LRA=110

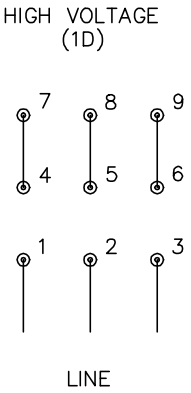



09LYC102
(924 - 960) = 23.86
[606]
[257]
10.11
APPROXIMATE
CENTER OF GRAVITY
±.50"
[95]
3.75
[6]
.25
.38 KEY [9]
2.88 LONG [73]
.12
Ø 8.500
8.497
[213]
[231]
9.09 Ø
Ø 1.625
1.624 [41]
SLINGER
8 HOLES
Ø.53
[210]
8.25
[210]
8.25
[19]
.75
[254]
10.00
[121]
4.75
[292]
11.50
DRAIN FITTING
(EA. END)
[329]
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

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