

ABB BALDOR RELIANCE III

Customer information packet

CEM2394T-G

15HP, 3520RPM, 3PH, 60HZ, 254TC, TEFC, F1

Class - None

Division - Not Applicable

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	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA CSA EEV NEMA PREMIUM 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	35.000 A @ 230.0 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
Heater Indicator	No Heater
High Voltage Full Load Amps	17.5 a

Part Detail

Revision	J
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	09WGZ602
Layout	09LYL284
Eff. date	03-19-2024
CD Diagram	CD0180
Poles	02
Leads	9#12
Proprietary	False
Created date	08-14-2019

Insulation Class	H
Inverter Code	Inverter Ready
IP Rating	NONE
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0930M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	23.78 IN
Power Factor	87
Product Family	General Purpose
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.625 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
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-G								
SPEC	09-0000-1705								
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	H	
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 # 32873

Typical performance - not guaranteed values

Winding: 09WGZ602-R008			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.		3520	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. @ 25°C		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

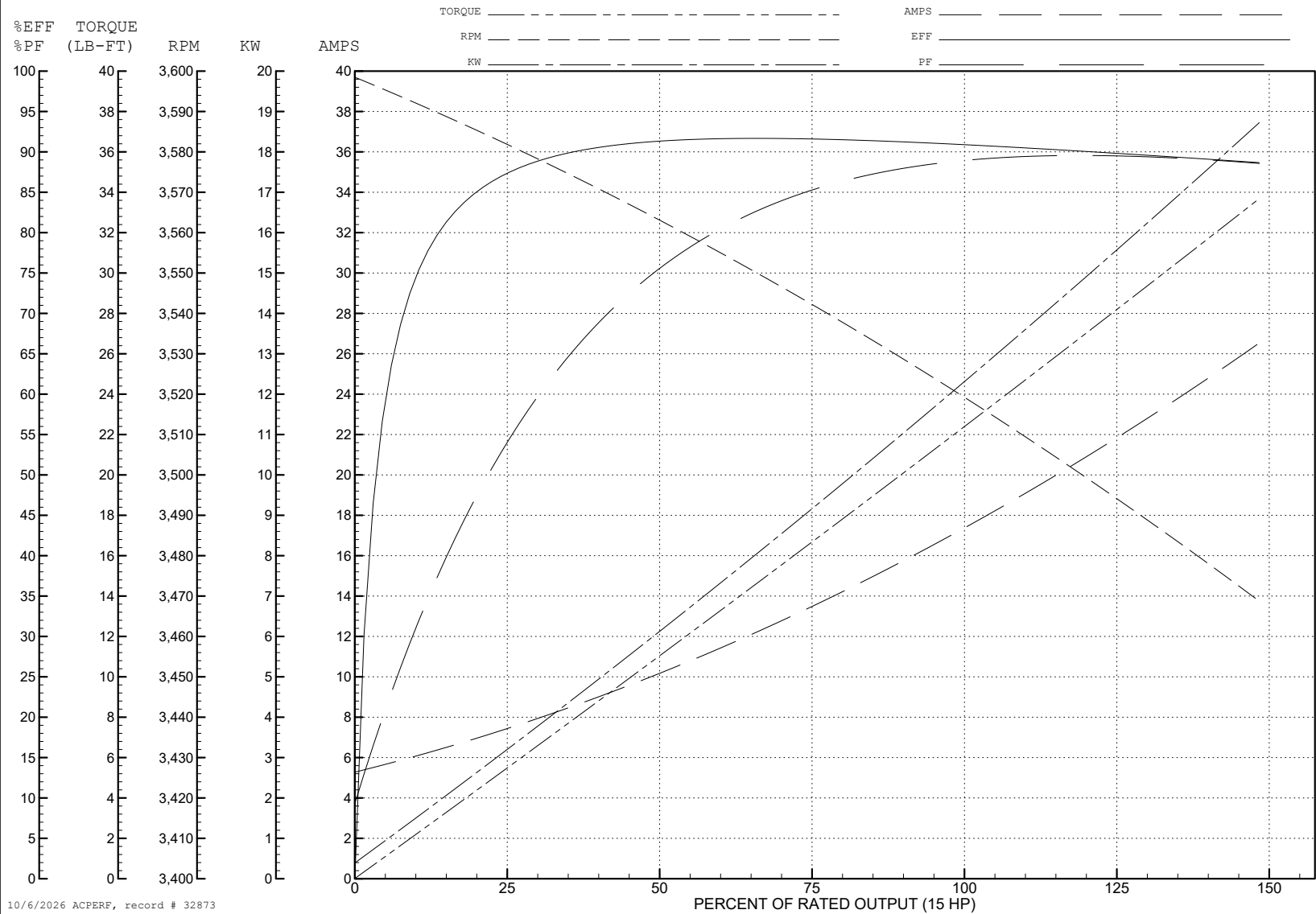
ABB Motors and Mechanical Inc.

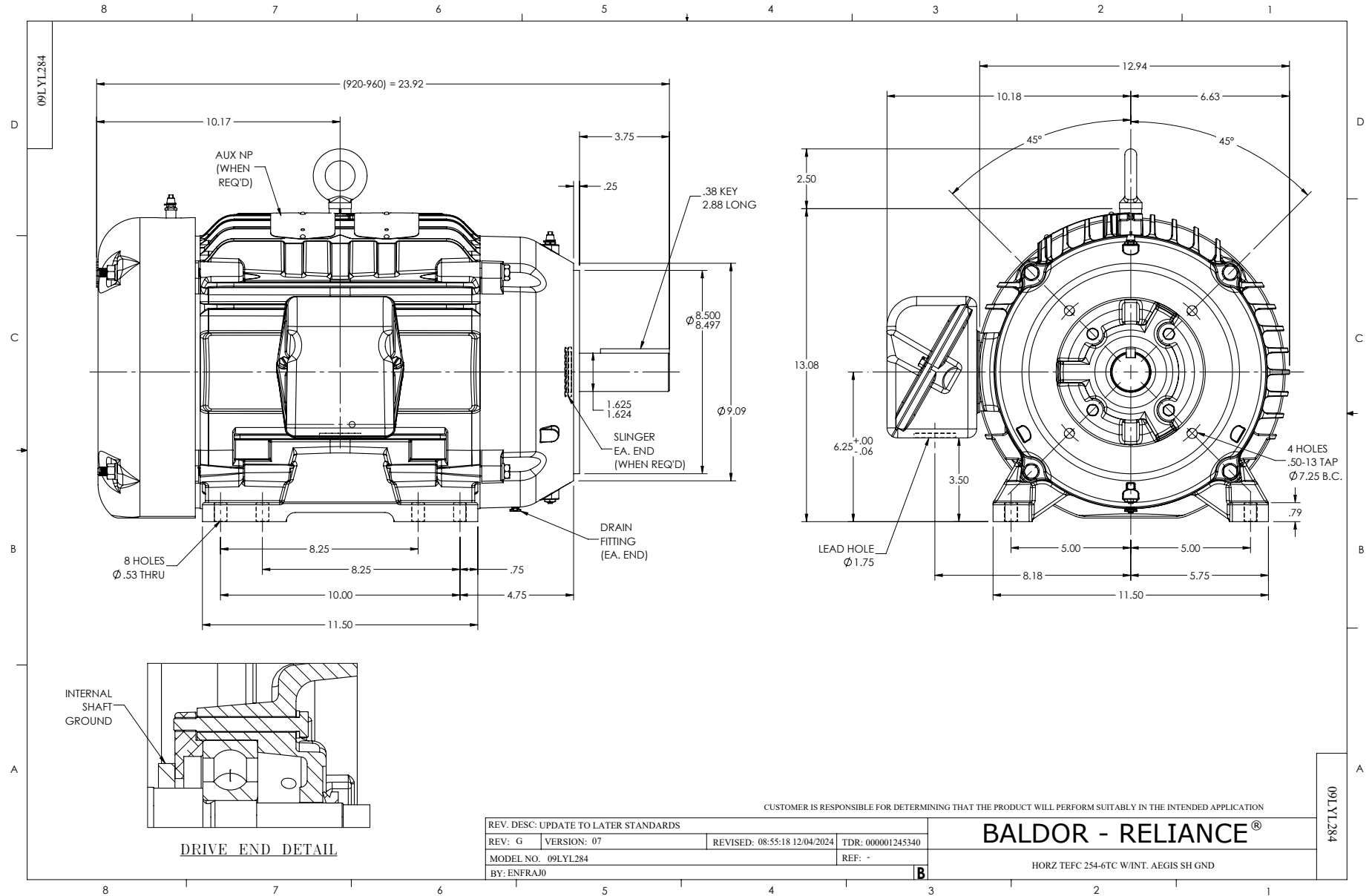
WINDING # 09WGZ602

Typical performance - not guaranteed values.

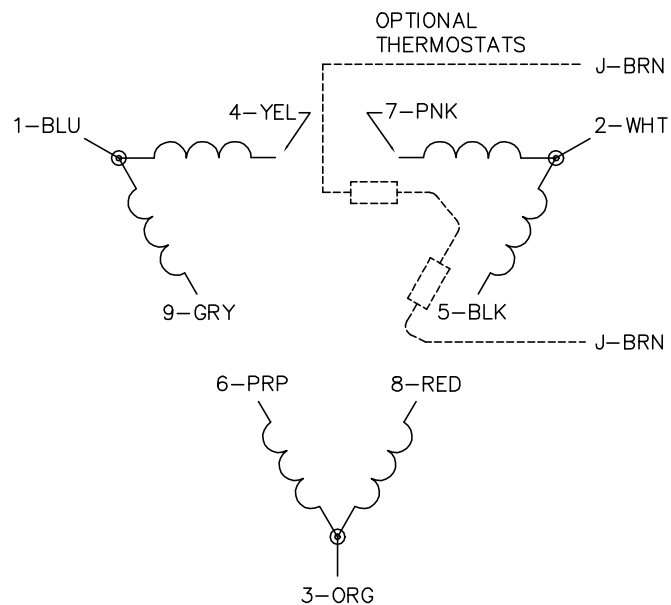
15 HP 3 PH 60 HZ 3520 RPM 460 V 0930M

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

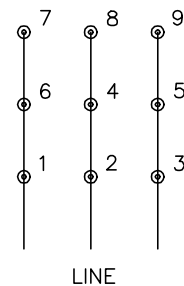




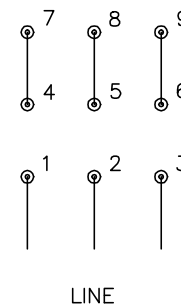
CD0180



LOW VOLTAGE
(2D)



HIGH VOLTAGE
(1D)



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: ENBRIRO

MTL: —



BALDOR - RELIANCE®

3PH, DV, 9 LEADS, DELTA CONNECTION

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