ABB BALDOR RELIANCE

Customer information packet

CEM2394T-G

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

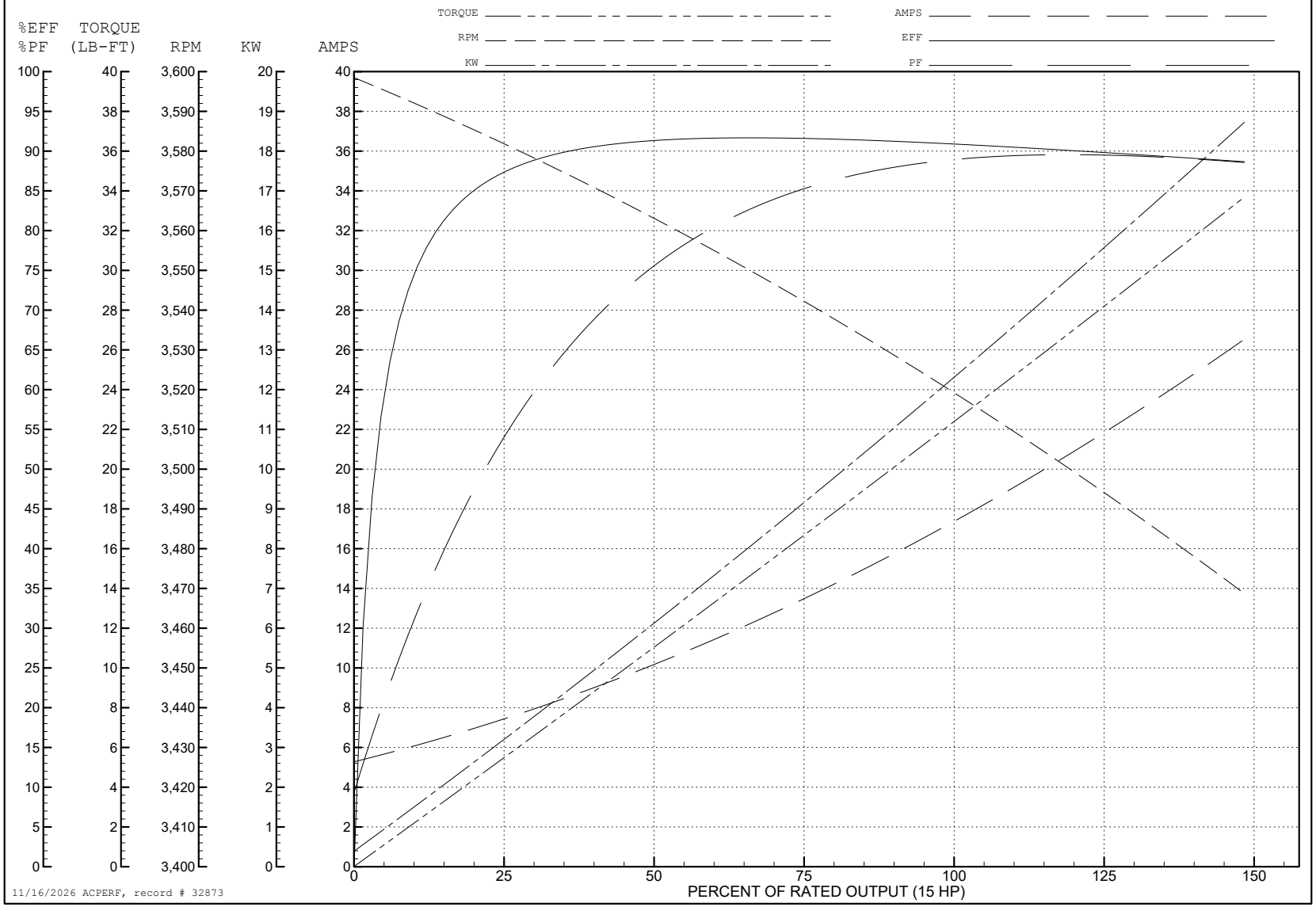
ABB Motors and Mechanical Inc.

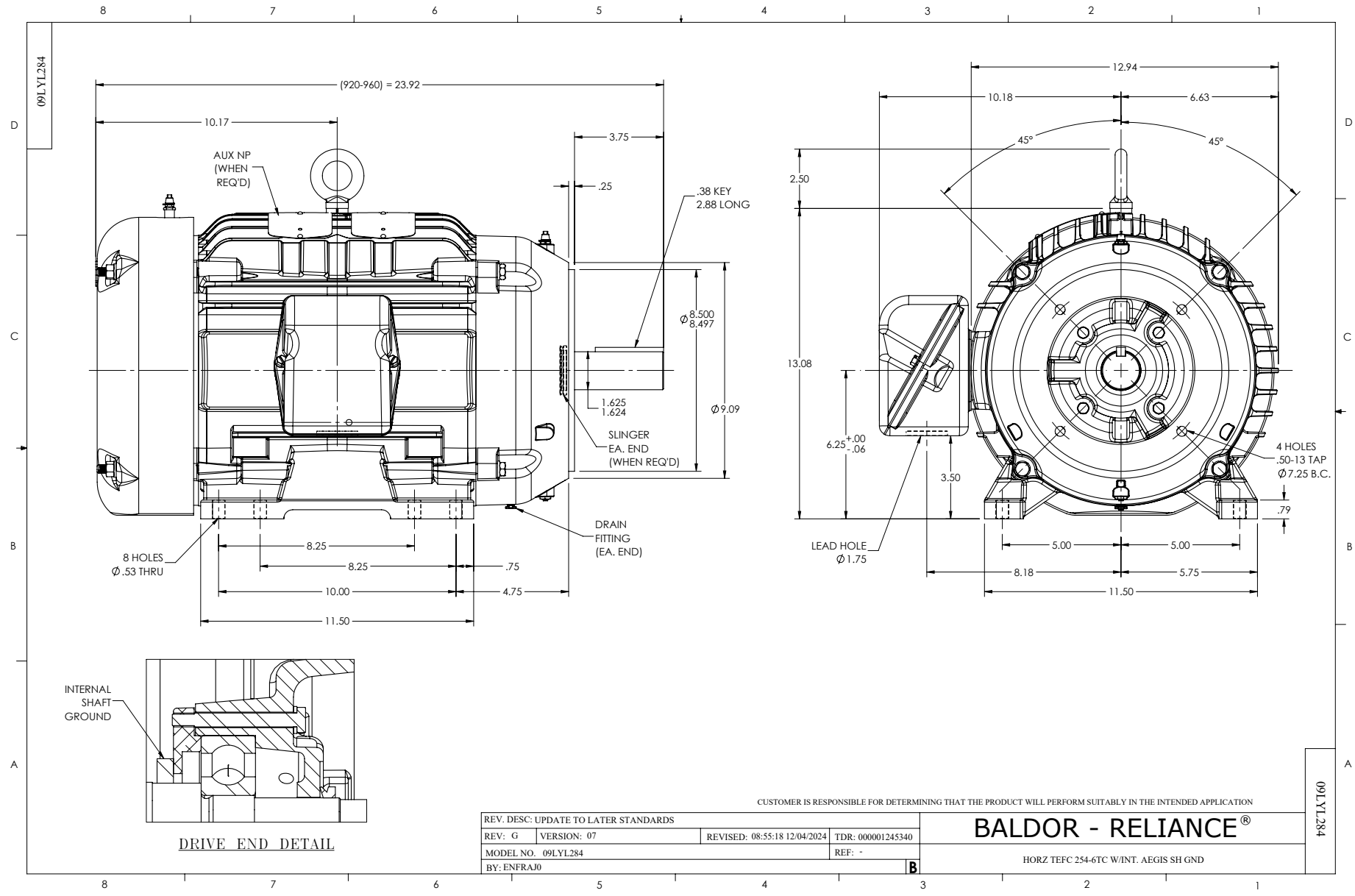
WINDING # 09WGZ602

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

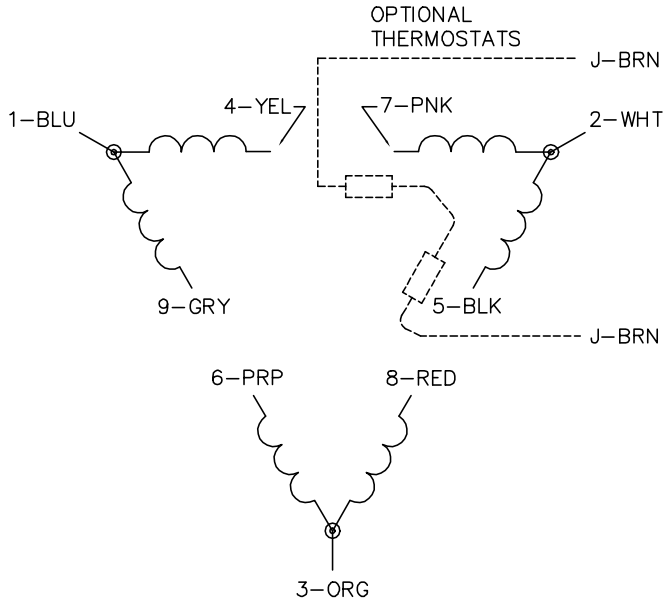
Typical performance - not guaranteed values.

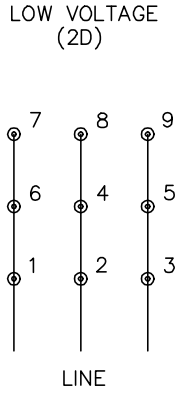
TORQUES(LB-FT): PO=105 PU=26.2 LR=36.3 LRA=110

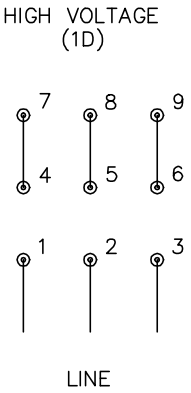



09LYL284
(920-960) = 23.92
10.17
AUX NP (WHEN REQ'D)
3.75
.25
.38 KEY 2.88 LONG
Ø8.500 8.497
Ø9.09
1.625 1.624
SLINGER EA. END (WHEN REQ'D)
DRAIN FITTING (EA. END)
8 HOLES Ø.53 THRU
8.25
8.25
.75
10.00
4.75
11.50
12.94
10.18
6.63
45°
45°
2.50
13.08
6.25 +.00 -.06
3.50
4 HOLES .50-13 TAP Ø7.25 B.C.
.79
LEAD HOLE Ø1.75
5.00
5.00
8.18
5.75
11.50
INTERNAL SHAFT GROUND
DRIVE END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: UPDATE TO LATER STANDARDS
REV: G
VERSION: 07
REVISED: 08:55:18 12/04/2024
TDR: 000001245340
MODEL NO. 09LYL284
REF: -
BY: ENFRAJ0
B
BALDOR - RELIANCE®
HORZ TEFC 254-6TC W/INT. AEGIS SH GND
09LYL284

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: –		

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3PH, DV, 9 LEADS, DELTA CONNECTION

SH 1 of 1