Customer information packet

CEM4106T-G

20HP, 3520RPM, 3PH, 60HZ, 256TC, TEFC, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	256TC
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	20.000 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	46.000 A @ 230.0 V
	23.000 A @ 460.0 V
Design Code	A
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	23.0 a

Part Detail

Revision	M
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	09WGZ601
Layout	09LYL284
Eff. date	04-07-2026
CD Diagram	CD0005
Poles	02
Leads	9#10
Proprietary	False
Created date	08-14-2019

Insulation Class	H
Inverter Code	Inverter Ready
IP Rating	NONE
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0936M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	23.78 IN
Power Factor	89
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.	CEM4106T-G									
SPEC	09-0000-1704									
HP	20									
VOLTS	230/460									
AMPS	46/23									
RPM	3520									
FRAME	256TC	**HZ**	60			**PH**	3			
SF	1.15	**CODE**	H	**DES**	A	**CLASS**	H			
NEMA NOM. EFF	91	**PF**	89							
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 20HP 190/380V 56/28A									SF1.0

AC Induction Motor Performance Data
Record # 36290
Typical performance - not guaranteed values

Winding: 09WGZ601-R024	**Type:** 0936M	**Enclosure:** TEFC

Nameplate Data			
Rated Output (HP)			20
Volts			230/460
Full Load Amps			46/23
R.P.M.			3520
Hz	60	**Phase**	3
NEMA Design Code	B	**KVA Code**	H
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	91	**Power Factor**	89
Rating - Duty			40C AMB-CONT
S.F. Amps			

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	29.6 LB-FT
Start Configuration	direct on line
Breakdown Torque	111 LB-FT
Pull-up Torque	39.1 LB-FT
Locked-rotor Torque	49.6 LB-FT
Starting Current	161 A
No-load Current	7.17 A
Line-line Res. @ 25ºC	0.47592 Ω
Temp. Rise @ Rated Load	76°C
Temp. Rise @ S.F. Load	95°C
Locked-rotor Power Factor	29
Rotor inertia	0.92 LB-FT2

Load Characteristics 460 V, 60 Hz, 20 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	58	78	86	89	90	90	90
Efficiency	88.9	92.2	92.4	91.7	90.7	89.2	91.1
Speed	3579.6	3561.5	3541.3	3519.5	3495.4	3467.8	3505
Line amperes	9	13	17.7	22.9	28.6	35	26.3

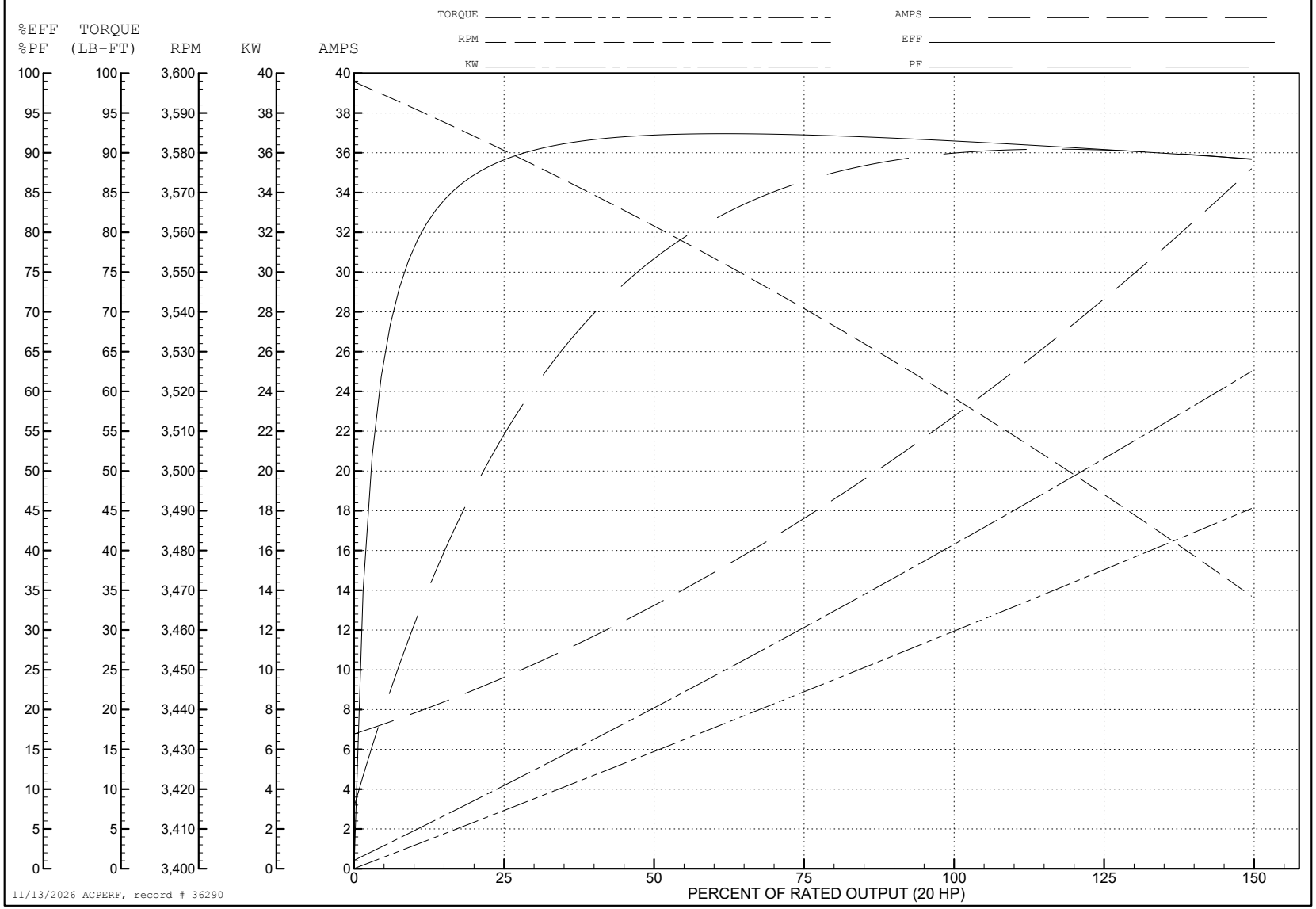
ABB Motors and Mechanical Inc.

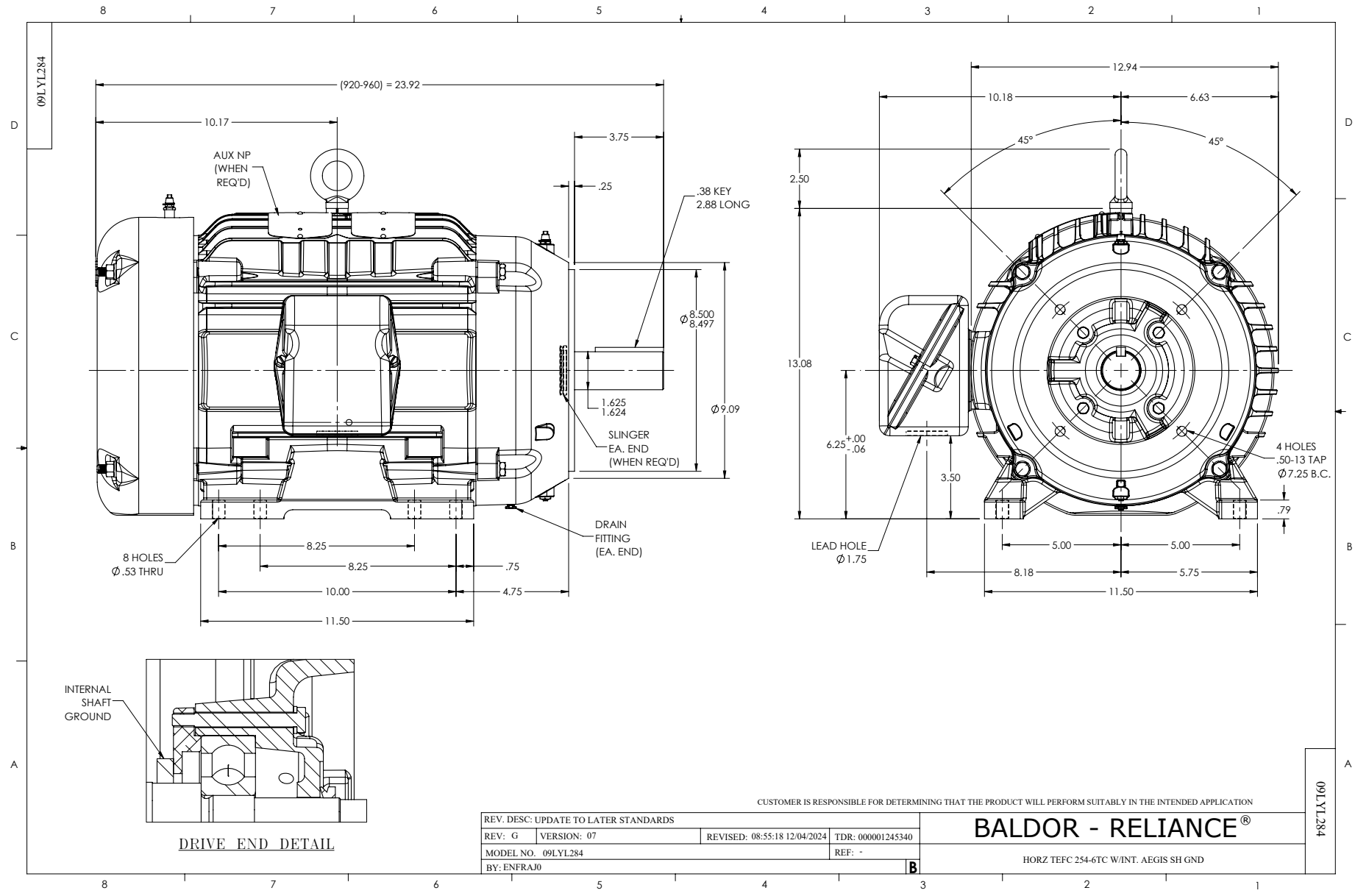
WINDING # 09WGZ601

20 HP 3 PH 60 HZ 3520 RPM 460 V 0936M

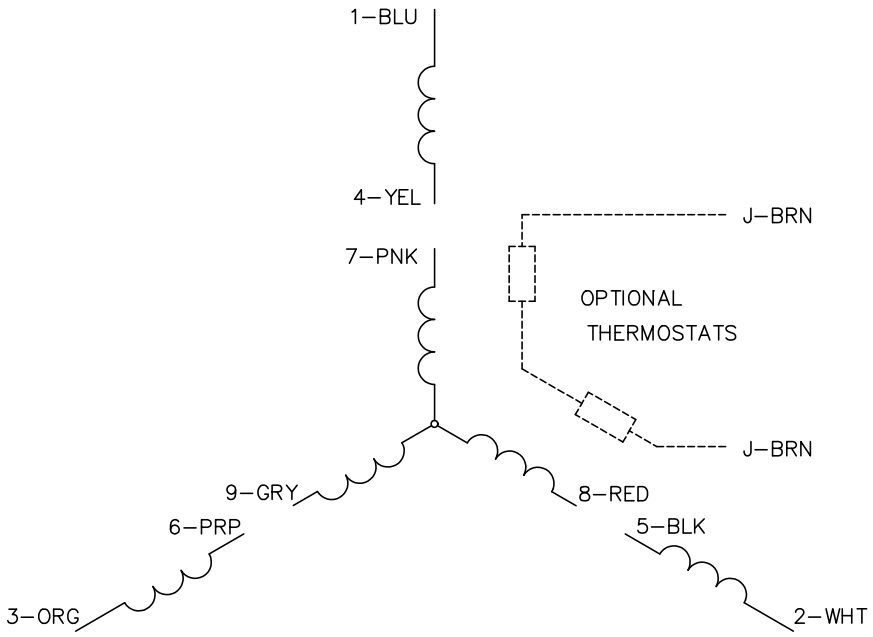
Typical performance - not guaranteed values.

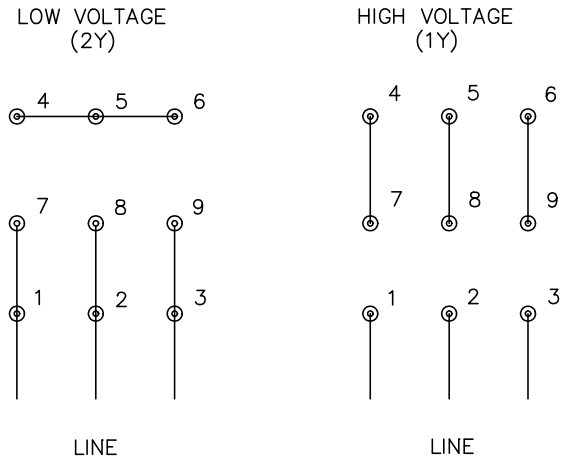
TORQUES(LB-FT): PO=111 PU=39.1 LR=49.6 LRA=161




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

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