ABB BALDOR RELIANCE

Customer information packet

CECP2333T

15HP, 1765RPM, 3PH, 60HZ, 254TC, 0944M, TEFC, F
Class - CLI GP A,B,C,D
Division - Division II

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Specifications

Enclosure	TEFC
Frame	254TC
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP A,B,C,D
Haz Area Division	Division II
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	CCSA US
	CSA EEV
	NEMA PREMIUM
	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	38.000 A @ 208.0 V
	36.200 A @ 230.0 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

Part Detail

Revision	E
Type	AC
Mech. spec.	09H180
Base	
Status	PRD/A
Elec. spec.	09WGT597
Layout	09LYH180
Eff. date	09-16-2025
CD Diagram	CD0005
Poles	04
Leads	9#12
Proprietary	False
Created date	01-01-0001

Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	18.1 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
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	25.28 IN
Power Factor	84
Product Family	Super-E Chemical Processing
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 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

NP3995ABAL

CAT #	CECP2333T	**SER**		**CC**	010A						
SPEC	09H180T597	**RATING**	40C AMB-CONT								
HZ	**VOLTS**	**AMPS**	**RPM**	**HP**	**CODE**	**SF**	**DES**	**PF**		**NEMA NOM. EFF**	
60	230/460	36.2/18.1	1765	15	H	1.15	A	84	%	92.4	%
									%		%

PH	3	**CL**	F	**MAX RPM**	2700	**MAX CORR KVAR**	3.8	**USABLE AT 208V**	N/A
IP55	**FR**	254TC	**ENCL**	TEFC	**DE BRG**	6309	**ODE BRG**	6309	
GREASE	POLYREX EM				**MTR WT**	297	**LBS**		
USABLE AT	50HZ 10HP 190/380V 30.4/15.2A				SF1.0				

CL I DIV 2 GRPS A,B,C,D		**CL I ZONE 2 GRPS**				**IIA,IIB,IIC**		**TEMP T**	160	**C**	
1.0 SF ON PWM INVERTER		**POWER**		**INV TEMP CL**	180	**C**					
CHP	60-90	**HZ**	1.5:1	**CT**	1.2-60	**HZ**	50:1	**VT**	0-60	**HZ**	1000:1
SPACE HEATER LEADS H1-H2:		**TIE LIKE NUMBERS**		**TOGETHER**							
V		**A**		**W**		**MAX SPACE HEATER TEMP**					

AC Induction Motor Performance Data
Record # 86511
Preliminary Data Sheet

Winding: 09WGT597-R006	**Type:** 0944M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			15	**Full Load Torque**	44.5 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			36.2/18.1	**Breakdown Torque**	154 LB-FT
R.P.M.			1765	**Pull-up Torque**	67.2 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	83.5 LB-FT
NEMA Design Code	A	**KVA Code**	H	**Starting Current**	129 A
Service Factor (S.F.)			1.15	**No-load Current**	7.32 A
NEMA Nom. Eff.	92.4	**Power Factor**	84	**Line-line Res. @ 25ºC**	0.61 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	52°C
S.F. Amps			41.0/20.5	**Temp. Rise @ S.F. Load**	67°C
				Locked-rotor Power Factor	38.1
				Rotor inertia	1.92 lb-ft²

Load Characteristics 460 V, 60 Hz, 15 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	48	69	79	84	86	87	86
Efficiency	88	92.1	92.7	92.5	91.7	90.7	91.9
Speed	1792	1785	1777	1768	1759	1749	1761
Line amperes	8.45	11	14.3	18.1	22.2	26.7	20.5

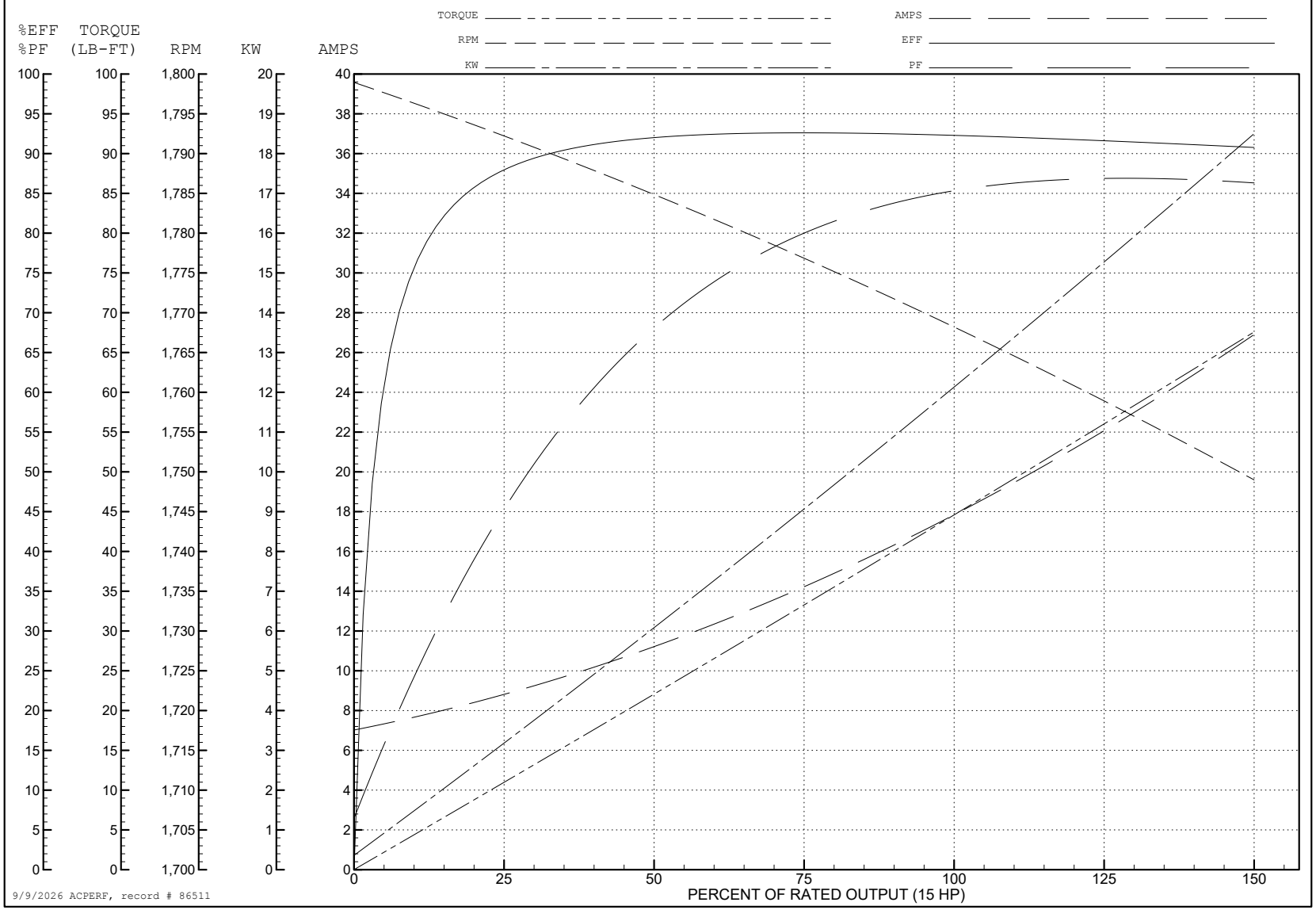
ABB Motors and Mechanical Inc.

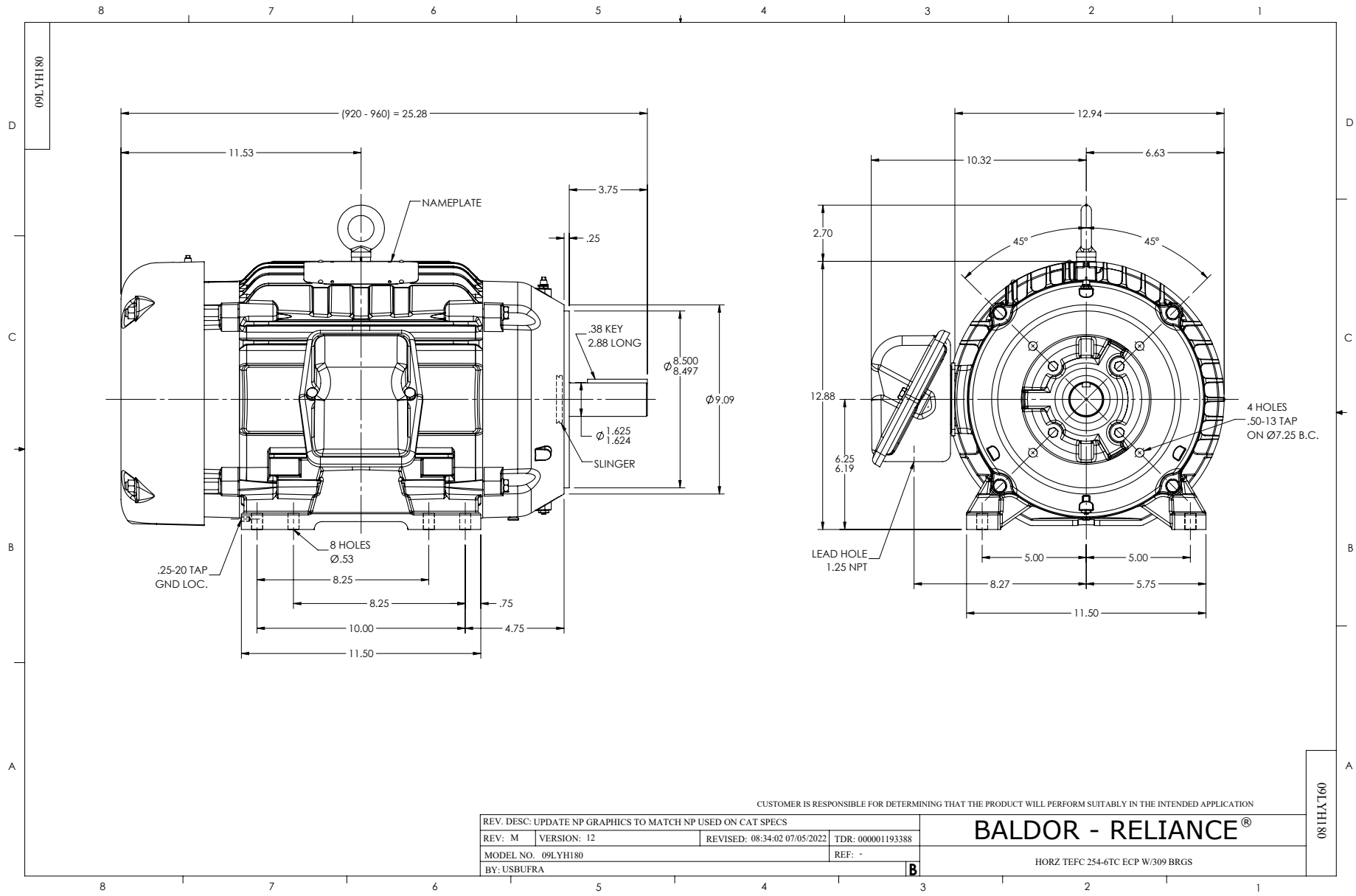
WINDING # 09WGT597

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

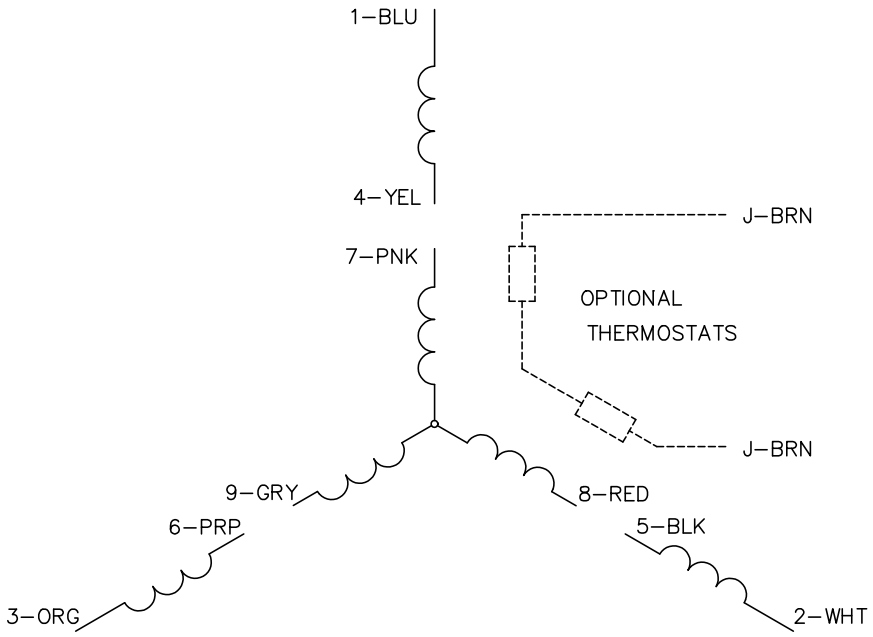
Typical performance - not guaranteed values.

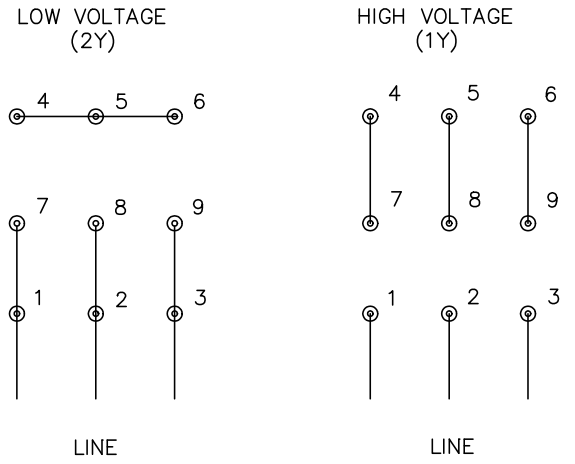
TORQUES(LB-FT): PO=154 PU=67.2 LR=83.5 LRA=129




09LYH180
(920 - 960) = 25.28
11.53
NAMEPLATE
3.75
.25
.38 KEY
2.88 LONG
Ø8.500
8.497
Ø9.09
Ø1.625
1.624
SLINGER
8 HOLES
Ø.53
.25-20 TAP
GND LOC.
8.25
8.25
.75
10.00
4.75
11.50
12.94
10.32
6.63
2.70
45°
45°
12.88
4 HOLES
.50-13 TAP
ON Ø7.25 B.C.
6.25
6.19
LEAD HOLE
1.25 NPT
5.00
5.00
8.27
5.75
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: M
VERSION: 12
REVISED: 08:34:02 07/05/2022
TDR: 000001193388
MODEL NO. 09LYH180
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
HORZ TEFC 254-6TC ECP W/309 BRGS
09LYH180

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