ABB BALDOR RELIANCE

Customer information packet

CECP2276T

7.5HP, 1180RPM, 3PH, 60HZ, 254TC, 0954M, TEFC
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	7.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 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
Constant Torque Speed Range	1.0
Current @ Voltage	25.000 A @ 208.0 V
	21.400 A @ 230.0 V
	10.700 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

Part Detail

Revision	Z
Type	AC
Mech. spec.	09H180
Base	
Status	PRD/A
Elec. spec.	09WGX827
Layout	09LYH180
Eff. date	09-16-2025
CD Diagram	CD0005
Poles	06
Leads	9#12
Proprietary	False
Created date	11-14-2013

Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	10.7 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	1800 rpm
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0954M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	25.28 IN
Power Factor	71
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 Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1180 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 #	CECP2276T	**SER**		**CC**	010A						
SPEC	09H180X827	**RATING**	40C AMB-CONT								
HZ	**VOLTS**	**AMPS**	**RPM**	**HP**	**CODE**	**SF**	**DES**	**PF**		**NEMA NOM. EFF**	
60	230/460	21.4/10.7	1180	7.5	J	1.15	A	71	%	91	%
									%		%

PH	3	**CL**	F	**MAX RPM**	1800	**MAX CORR KVAR**	4.15	**USABLE AT 208V**	N/A
IP55	**FR**	254TC	**ENCL**	TEFC	**DE BRG**	6309	**ODE BRG**	6309	
GREASE	POLYREX EM			**MTR WT**	305	**LBS**			
USABLE AT	50HZ 5HP 190/380V 18.6/9.3A			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**	1.0-60	**HZ**	60:1	**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 # 47260
Typical performance - not guaranteed values

Winding: 09WGX827-R040	**Type:** 0954M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			7.5	**Full Load Torque**	32.4 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			21.4/10.7	**Breakdown Torque**	99.2 LB-FT
R.P.M.			1180	**Pull-up Torque**	39.4 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	57.8 LB-FT
NEMA Design Code	A	**KVA Code**	J	**Starting Current**	69.7 A
Service Factor (S.F.)			1.15	**No-load Current**	5.84 A
NEMA Nom. Eff.	91	**Power Factor**	71	**Line-line Res. @ 25ºC**	0.89 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	31°C
S.F. Amps				**Temp. Rise @ S.F. Load**	36°C
				Rotor inertia	4.34 LB-FT2

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	32	52	63	71	73	75	72
Efficiency	83	89.7	91.5	91.5	91.8	91.2	91.9
Speed	1196	1192	1189	1184	1179	1173	1181
Line amperes	6.34	7.49	8.87	10.7	12.9	15.7	12

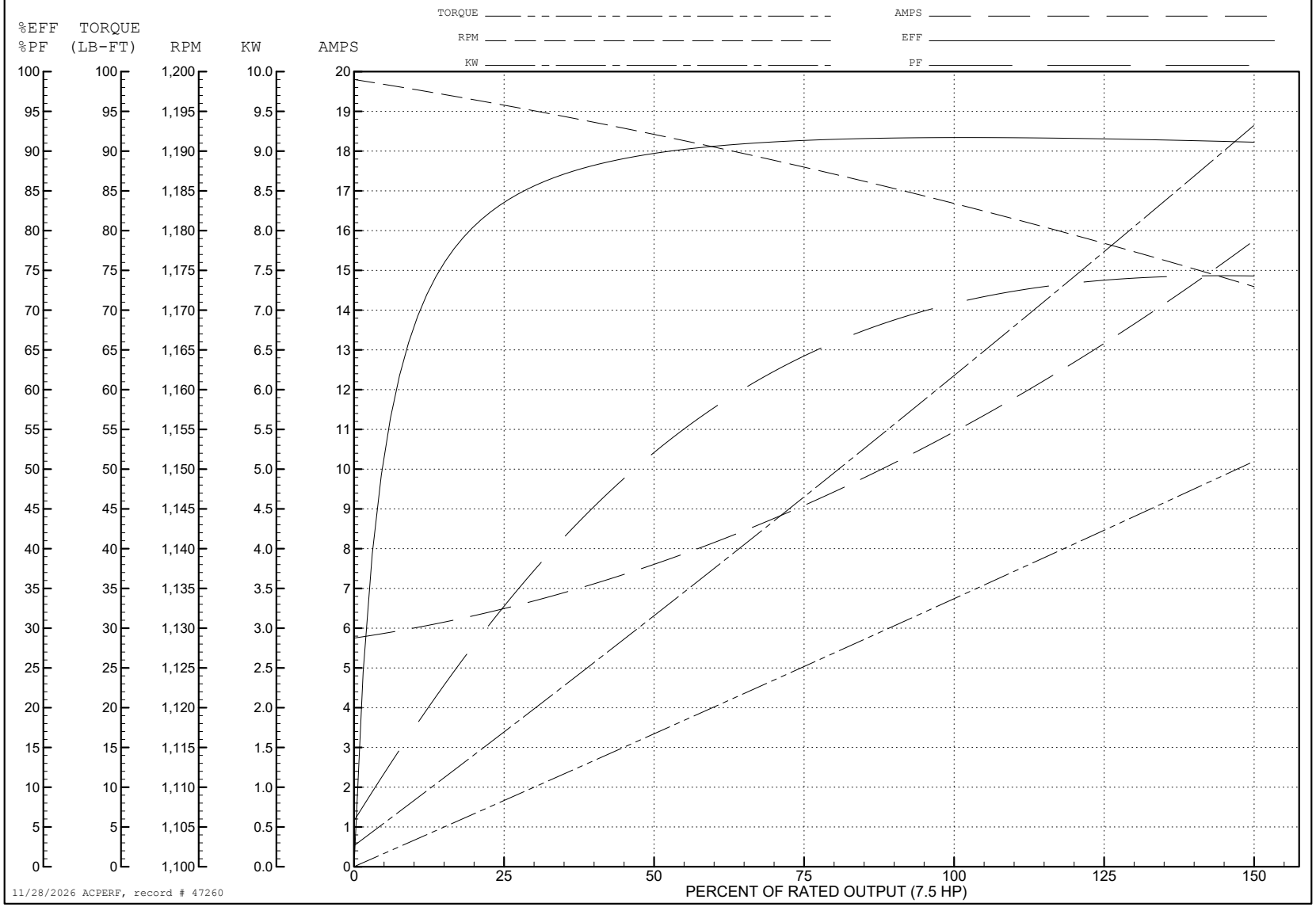
ABB Motors and Mechanical Inc.

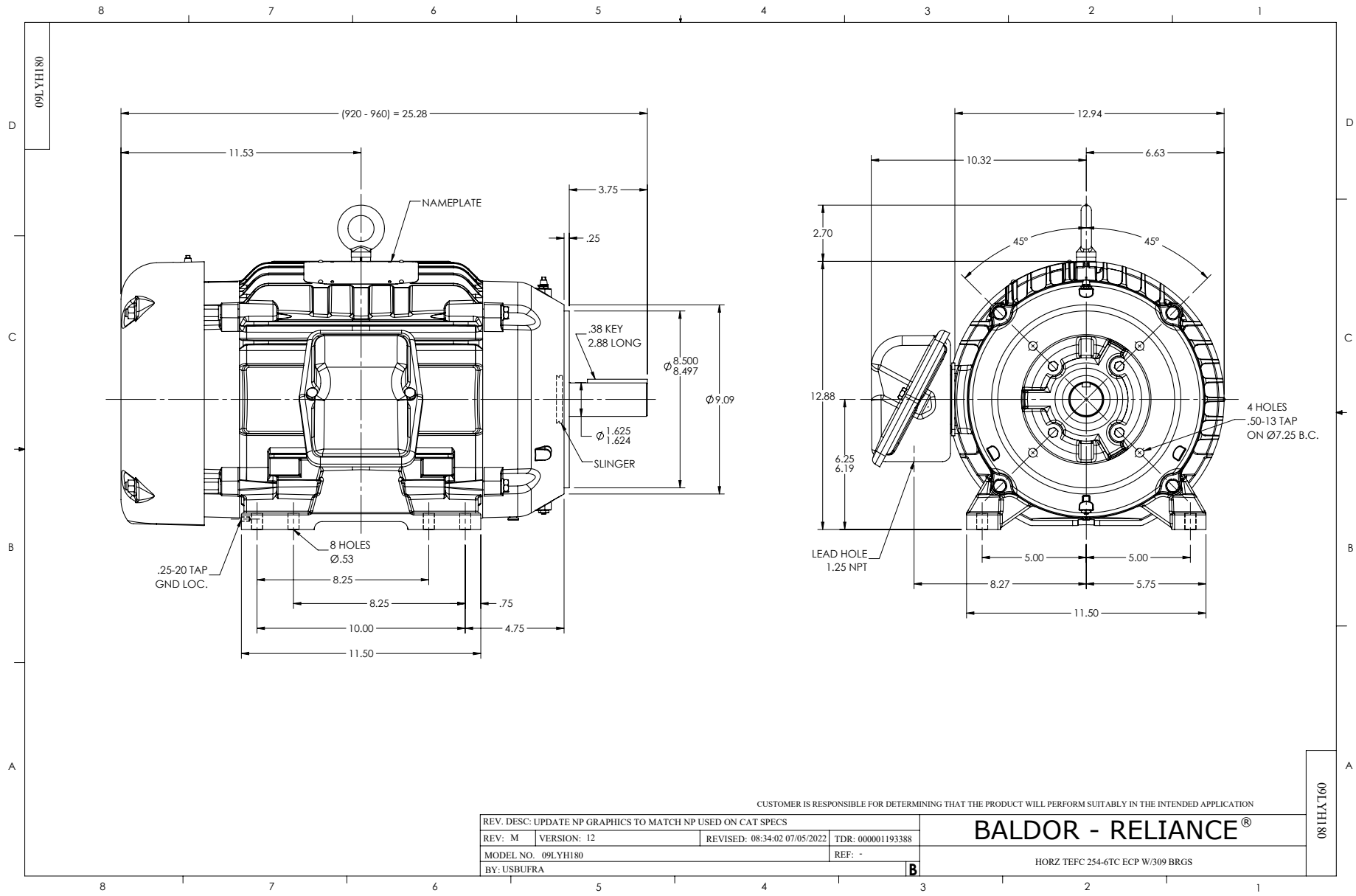
WINDING # 09WGX827

7.5 HP 3 PH 60 HZ 1180 RPM 460 V 0954M

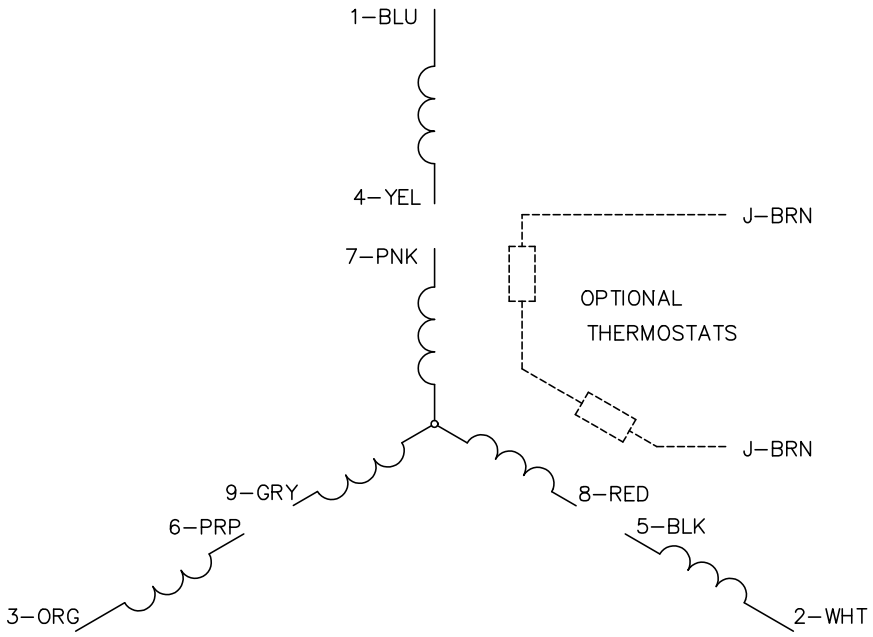
Typical performance - not guaranteed values.

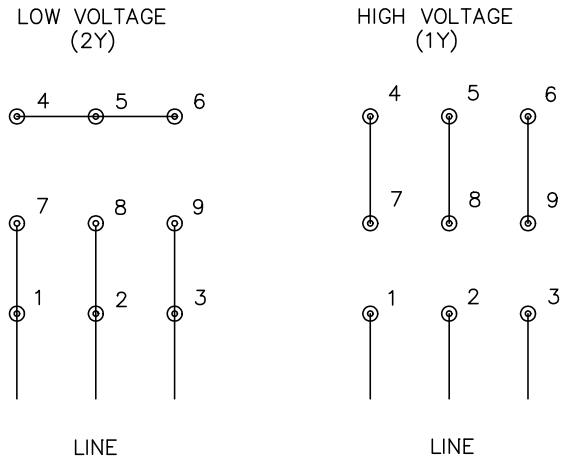
TORQUES(LB-FT): PO=99.2 PU=39.4 LR=57.8 LRA=69.7




09LYH180
(920 - 960) = 25.28
11.53
3.75
.25
NAMEPLATE
.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