ABB BALDOR RELIANCE

Customer information packet

EM7559T-I

20HP, 3530RPM, 3PH, 60HZ, 256T, 0950M, XPFC, F1
Class - CLI GP D; CLII GP E,F,G
Division - Division I

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11/20/2026 10:10:23 AM

Specifications

Enclosure	XPFC
Frame	256T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP D; CLII GP E,F,G
Haz Area Division	Division I
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	UR
	CSA
	CSA EEV
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	48.000 A @ 208.0 V
	44.000 A @ 230.0 V
	22.000 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
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	R
Type	AC
Mech. spec.	09J321
Base	
Status	PRD/A
Elec. spec.	09WGZ651
Layout	09LYJ321
Eff. date	12-26-2024
CD Diagram	CD0180
Poles	02
Leads	9#10
Proprietary	False
Created date	09-08-2016

Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	22.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	X0950M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	25.81 IN
Power Factor	91
Product Family	Hazardous Location Motor
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS NON-COMPLIANT
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	3530 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat

Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP1044XPSLEV												
NO.						**CC**	010A					
SER.						**TEMP CODE**	T3C					
SPEC.	09J321Z651G1											
CAT.NO.												
HP	20											
VOLTS	230/460											
AMPS	44/22											
RPM	3530				**MOTOR WEIGHT**	390						
HERTZ	60	**PH**	3	**CL**	F	**DE BRG**	6309					
SER.F.	1.15	**DES**	A	**CODE**	H	**ODE BRG**	6208					
FRAME	256T	**GREASE**	POLYREX EM									
RATING	40C AMB-CONT											
				NEMA-NOM-EFF	91	**PF**	91					
	55C AMB @ 1.0 SF,60C RISE											

AC Induction Motor Performance Data
Record # 54029
Typical performance - not guaranteed values

Winding: 09WGZ651-R004	**Type:** 0950M	**Enclosure:** XPFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			20	**Full Load Torque**	30 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			44/22	**Breakdown Torque**	167 LB-FT
R.P.M.			3530	**Pull-up Torque**	33.7 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	51 LB-FT
NEMA Design Code	A	**KVA Code**	H	**Starting Current**	160 A
Service Factor (S.F.)			1.15	**No-load Current**	5.75 A
NEMA Nom. Eff.	91	**Power Factor**	91	**Line-line Res. @ 25ºC**	0.43337 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	58°C
S.F. Amps				**Temp. Rise @ S.F. Load**	72°C

Load Characteristics 460 V, 60 Hz, 20 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	65	83	89	91	91	91	91
Efficiency	89.4	92.7	92.9	92.4	91.4	90.1	91.8
Speed	3580.7	3566.7	3547.3	3526.6	3504.5	3479.4	3513
Line amperes	8.04	12.2	17.1	22.4	28.2	34.2	25.9

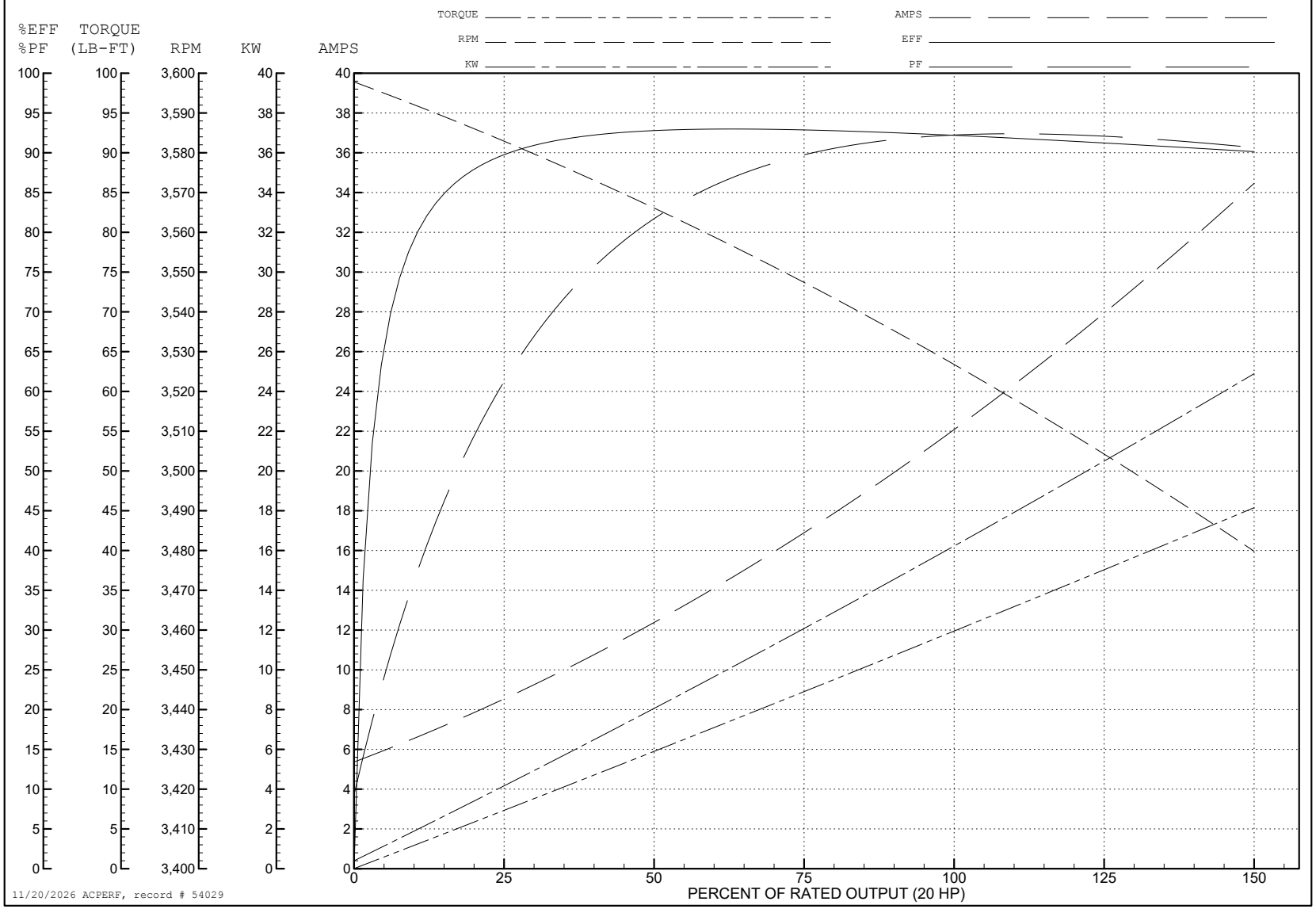
ABB Motors and Mechanical Inc.

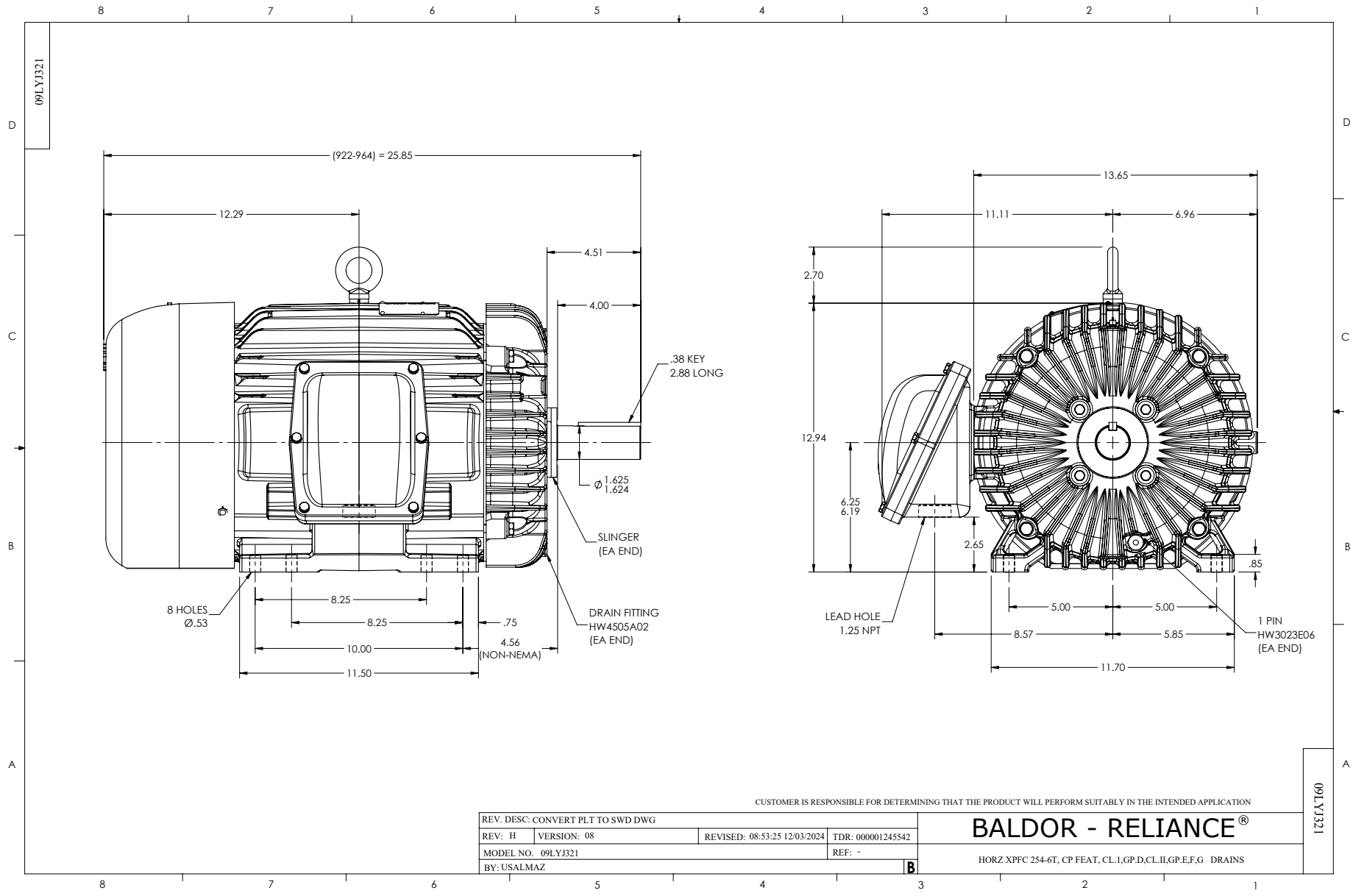
WINDING # 09WGZ651

20 HP 3 PH 60 HZ 3530 RPM 460 V 0950M

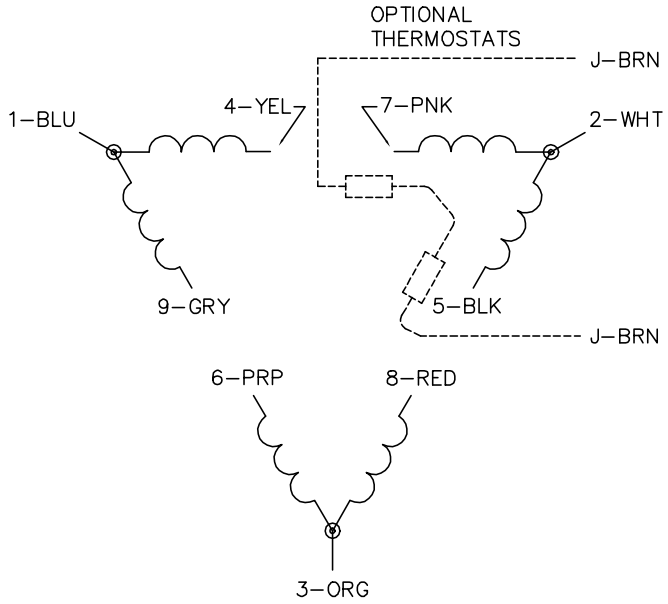
Typical performance - not guaranteed values.

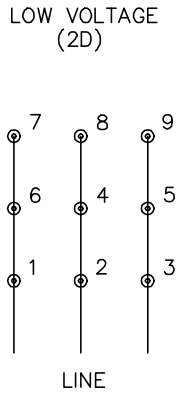
TORQUES(LB-FT): PO=167 PU=33.7 LR=51 LRA=160

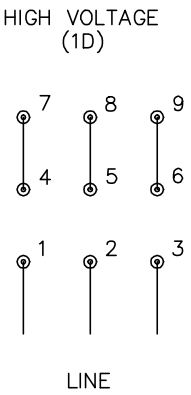



09LYJ321
(922-964) = 25.85
12.29
4.51
4.00
.38 KEY
2.88 LONG
Ø 1.625
1.624
SLINGER
(EA END)
8 HOLES
Ø.53
8.25
8.25
.75
10.00
4.56
(NON-NEMA)
11.50
DRAIN FITTING
HW4505A02
(EA END)
13.65
11.11
6.96
2.70
12.94
6.25
6.19
2.65
.85
LEAD HOLE
1.25 NPT
5.00
5.00
8.57
5.85
1 PIN
HW3023E06
(EA END)
11.70
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT PLT TO SWD DWG
REV: H
VERSION: 08
REVISED: 08:53:25 12/03/2024
TDR: 000001245542
MODEL NO. 09LYJ321
REF: -
BY: USALMAZ
B
BALDOR - RELIANCE®
HORZ XPFC 254-6T, CP FEAT, CL.1,GP.D,CL.II,GP.E,F,G DRAINS
09LYJ321

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: –		

BALDOR - RELIANCE®

3PH, DV, 9 LEADS, DELTA CONNECTION

SH 1 of 1