ABB BALDOR RELIANCE

Customer information packet

EJMM4106T

20HP, 3520RPM, 3PH, 60HZ, 256JM, 0936M, TEFC, F
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	256JM
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
	UR
	NEMA PREMIUM
	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	23.000 A @ 460.0 V
	46.000 A @ 230.0 V
	50.000 A @ 208.0 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

Part Detail

Revision	J
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	M-09WG-Z601
Layout	09LY-001-178
Eff. date	06-29-2026
CD Diagram	CD0005
Poles	02
Leads	9#10,0#0,0#0
Proprietary	False
Created date	02-25-2021

High Voltage Full Load Amps	23.0 a
Insulation Class	F
Inverter Code	Inverter Ready
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	25.36 IN
Power Factor	89
Product Family	General Purpose
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.250 IN
Shaft Ground Indicator	No 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.	EJMM4106T									
SPEC	09-0000-2957									
HP	20									
VOLTS	230/460									
AMPS	46/23									
RPM	3520									
FRAME	256JM	**HZ**	60	**PH**	3					
SF	1.15	**CODE**	H	**DES**	A	**CLASS**	F			
NEMA NOM. EFF	91	**PF**	89							
RATING	CONT									
CC	010A									
ENCL	TEFC	**SER**								
DE	6309	**ODE**	6208							
VPWM INVERTER READY	SFA 52/26									
CT6-60H(10:1)VT3-60H(20:1										
	50HZ 20HP 190/380V 56/28A									SF1.0

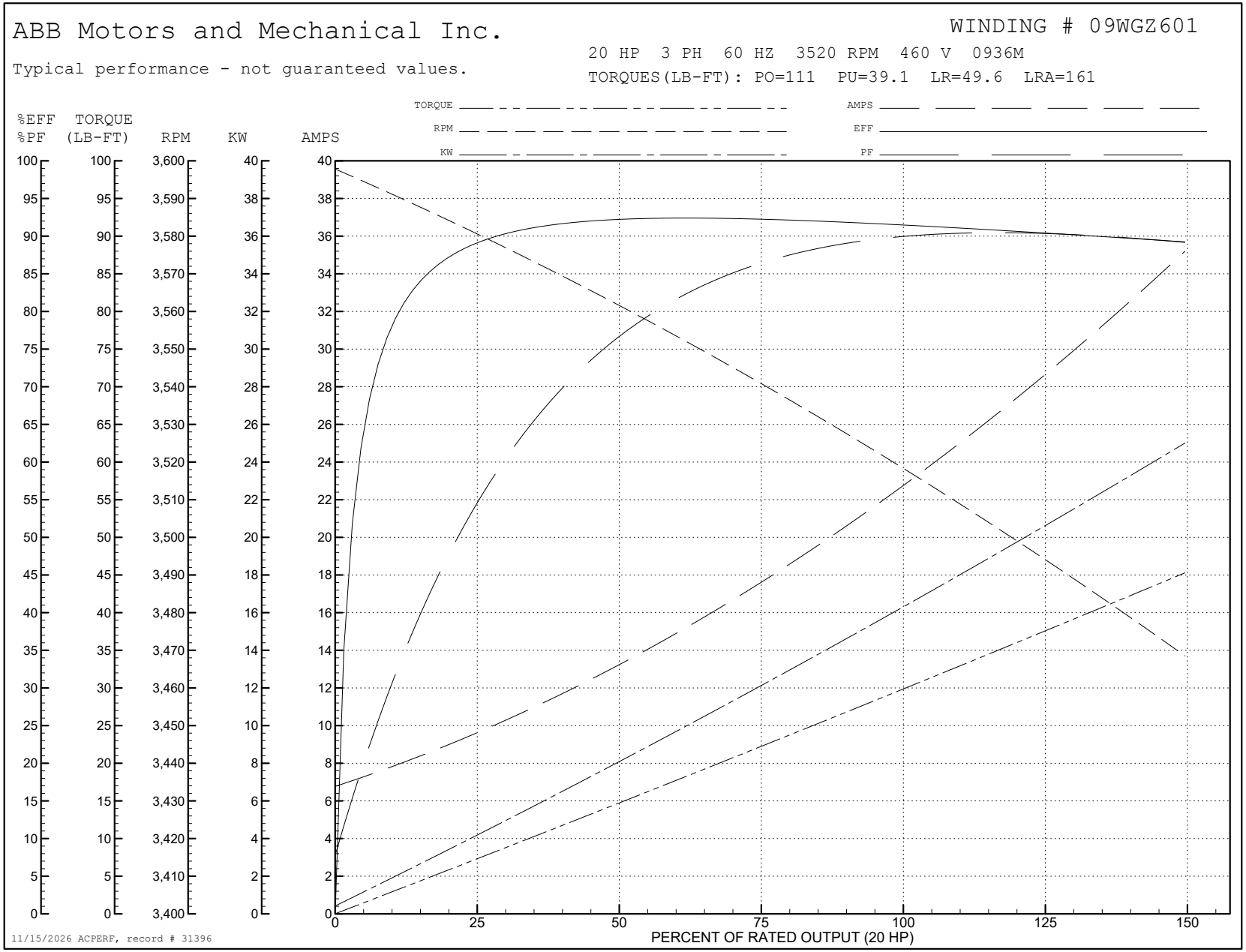
AC Induction Motor Performance Data
Record # 31396
Typical performance - not guaranteed values

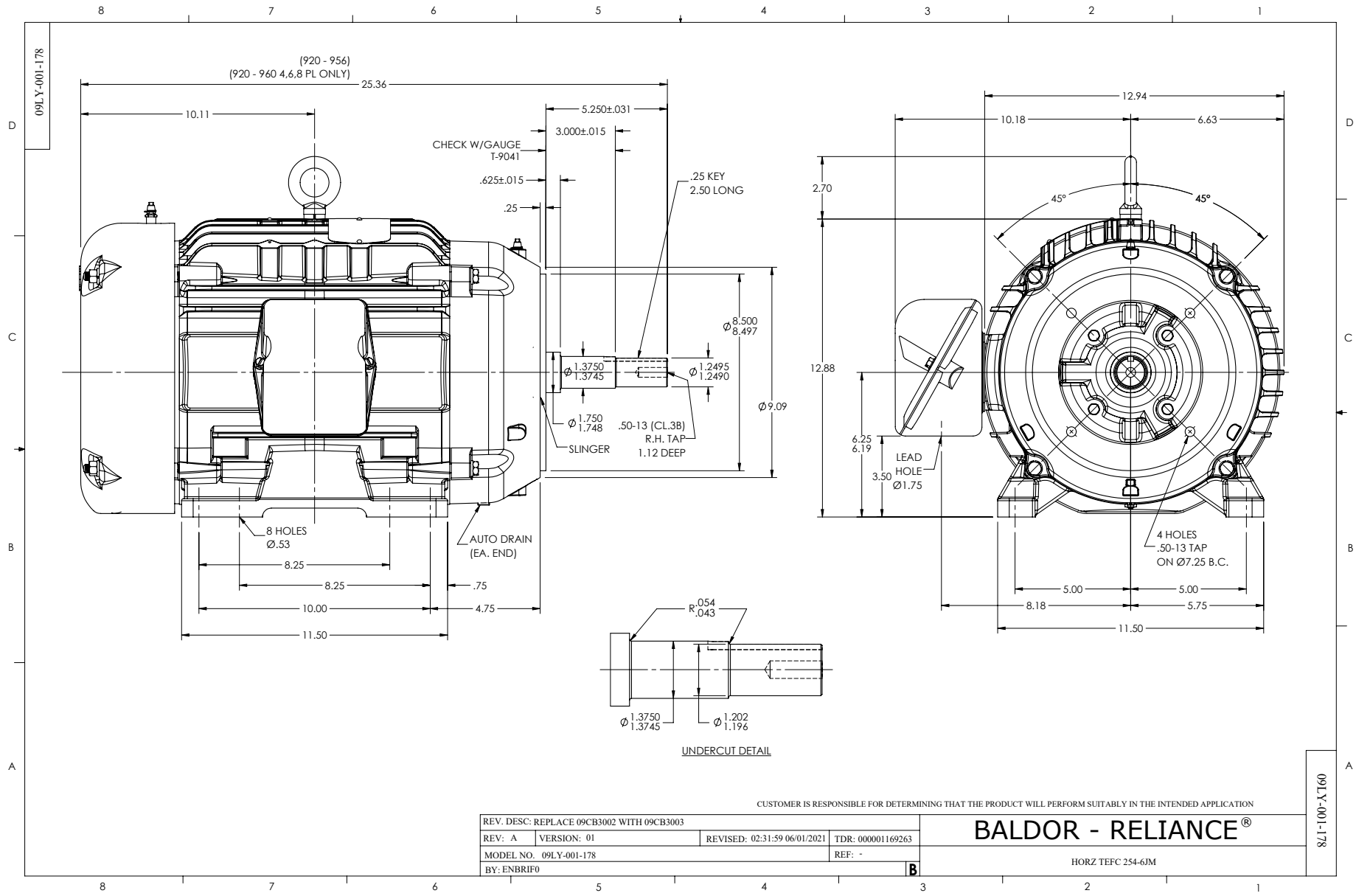
Winding: 09WGZ601-R001	**Type:** 0936M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			20	**Full Load Torque**	29.6 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			46/23	**Breakdown Torque**	111 LB-FT
R.P.M.			3520	**Pull-up Torque**	39.1 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	49.6 LB-FT
NEMA Design Code	A	**KVA Code**	H	**Starting Current**	161 A
Service Factor (S.F.)			1.15	**No-load Current**	7.17 A
NEMA Nom. Eff.	91	**Power Factor**	89	**Line-line Res. @ 25ºC**	0.47592 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	76°C
S.F. Amps				**Temp. Rise @ S.F. Load**	95°C
				Locked-rotor Power Factor	29.4
				Rotor inertia	0.92 lb-ft²

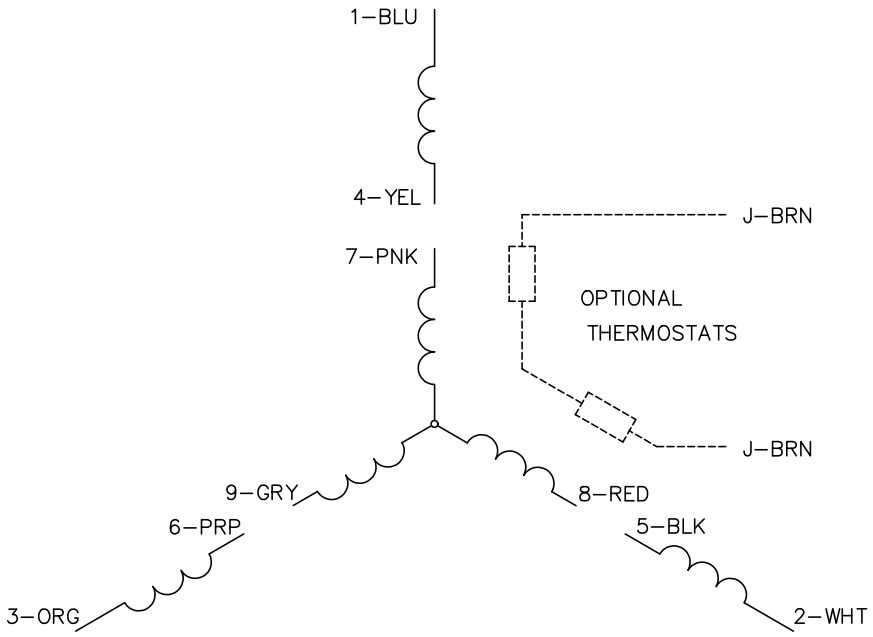
Load Characteristics 460 V, 60 Hz, 20 HP

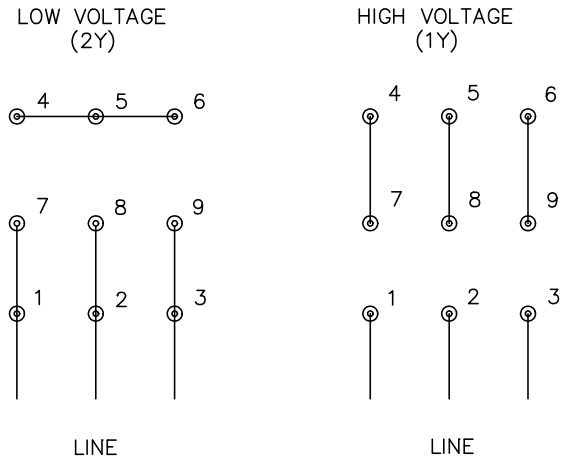
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	58	78	86	89	90	90	90
Efficiency	88.9	92.2	92.4	91.7	90.7	89.2	91.1
Speed	3579.6	3561.5	3541.3	3519.5	3495.4	3467.8	3505
Line amperes	9	13	17.7	22.9	28.6	35	26.3


ABB Motors and Mechanical Inc.
WINDING # 09WGZ601
Typical performance - not guaranteed values.
20 HP 3 PH 60 HZ 3520 RPM 460 V 0936M
TORQUES(LB-FT): PO=111 PU=39.1 LR=49.6 LRA=161
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (20 HP)
11/15/2026 ACPERF, record # 31396


09LY-001-178
(920 - 956)
(920 - 960 4,6,8 PL ONLY)
25.36
10.11
5.250±.031
3.000±.015
CHECK W/GAUGE T-9041
.625±.015
.25
.25 KEY
2.50 LONG
Ø8.500
8.497
Ø1.3750
1.3745
Ø1.2495
1.2490
Ø1.750
1.748
SLINGER
.50-13 (CL.3B)
R.H. TAP
1.12 DEEP
Ø9.09
8 HOLES
Ø.53
AUTO DRAIN
(EA. END)
8.25
8.25
.75
10.00
4.75
11.50
R.054
.043
Ø1.3750
1.3745
Ø1.202
1.196
UNDERCUT DETAIL
12.94
10.18
6.63
2.70
45°
45°
12.88
6.25
6.19
3.50
LEAD
HOLE
Ø1.75
4 HOLES
.50-13 TAP
ON Ø7.25 B.C.
5.00
5.00
8.18
5.75
11.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: REPLACE 09CB3002 WITH 09CB3003
REV: A
VERSION: 01
REVISED: 02:31:59 06/01/2021
TDR: 000001169263
MODEL NO. 09LY-001-178
REF: -
BY: ENBRIF0
B
BALDOR - RELIANCE®
HORZ TEFC 254-6JM
09LY-001-178

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