ABB BALDOR RELIANCE

Customer information packet

AEM2237-4

7.5HP, 1765RPM, 3PH, 60HZ, 254U, 0932M, TEFC, F
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	254U
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	7.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	UR
	CSA
Ambient Temperature	65 °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	9.100 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	9.1 a
Insulation Class	F
Inverter Code	Inverter Ready

Part Detail

Revision	S
Type	AC
Mech. spec.	09T36
Base	
Status	PRD/A
Elec. spec.	09WGT177
Layout	09LYT036
Eff. date	05-11-2026
CD Diagram	CD0006
Poles	04
Leads	3#12
Proprietary	False
Created date	02-21-2015

KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 12 AWG
Motor Lead Termination	Ring Terminals
Motor Standards	NEMA
Motor Type	0932M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	23.11 IN
Power Factor	82
Product Family	Automotive (Not For DC)
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	1.375 IN
Shaft Extension Location	Pulley End
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

NP1404								
CAT.NO.	AEM2237-4							
SPEC.	09T036T177G1							
VOLTS	460							
AMP	9.1							
RPM	1765		**HP**	7.5				
FRAME	254U	**HZ**	60		**PH**	3		
SER.F.	1.00	**CODE**	H	**DES**	B	**CL**	F	
NEMA-NOM-EFF	91.7	**PF**	82					
G.MIN.EFF	90.2	**CC**	010A					
RATING	65C AMB-CONT							
LUBRICATION	POLYREX EM							
DE	6309	**ODE**	6208					
ENCL	TEFC	**SER. #**						

Accessories

Part number	Description	Multiplier
09-1309	C FACE KIT	A8

AC Induction Motor Performance Data
Record # 49357
Typical performance - not guaranteed values

Winding: 09WGT177-R001	**Type:** 0932M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			7.5	**Full Load Torque**	22.1 LB-FT
Volts			460	**Start Configuration**	direct on line
Full Load Amps			9.1	**Breakdown Torque**	74.8 LB-FT
R.P.M.			1765	**Pull-up Torque**	30.5 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	38.5 LB-FT
NEMA Design Code	B	**KVA Code**	H	**Starting Current**	59.3 A
Service Factor (S.F.)			1	**No-load Current**	3.5 A
NEMA Nom. Eff.	91.7	**Power Factor**	82	**Line-line Res. @ 25ºC**	1.33 Ω
Rating - Duty			65C AMB-CONT	**Temp. Rise @ Rated Load**	24°C
				Locked-rotor Power Factor	35.2
				Rotor inertia	1.4 LB-FT2

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	49	71	81	84	86	87
Efficiency	86.3	91.3	92.4	91.8	91.2	90.2
Speed	1793	1786	1778	1770	1760	1750
Line amperes	4.07	5.32	7	9.05	11.2	13.4

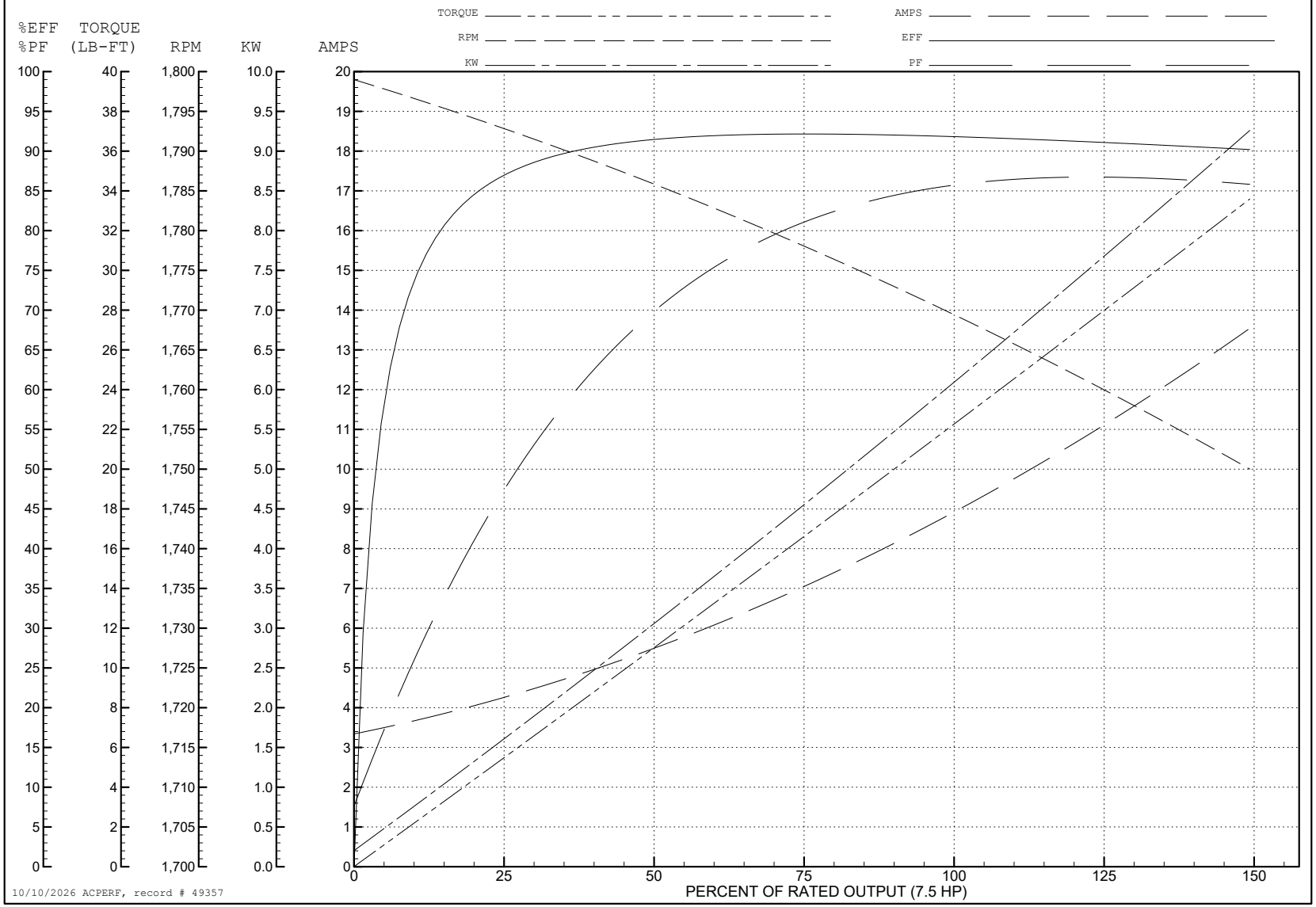
ABB Motors and Mechanical Inc.

WINDING # 09WGT177

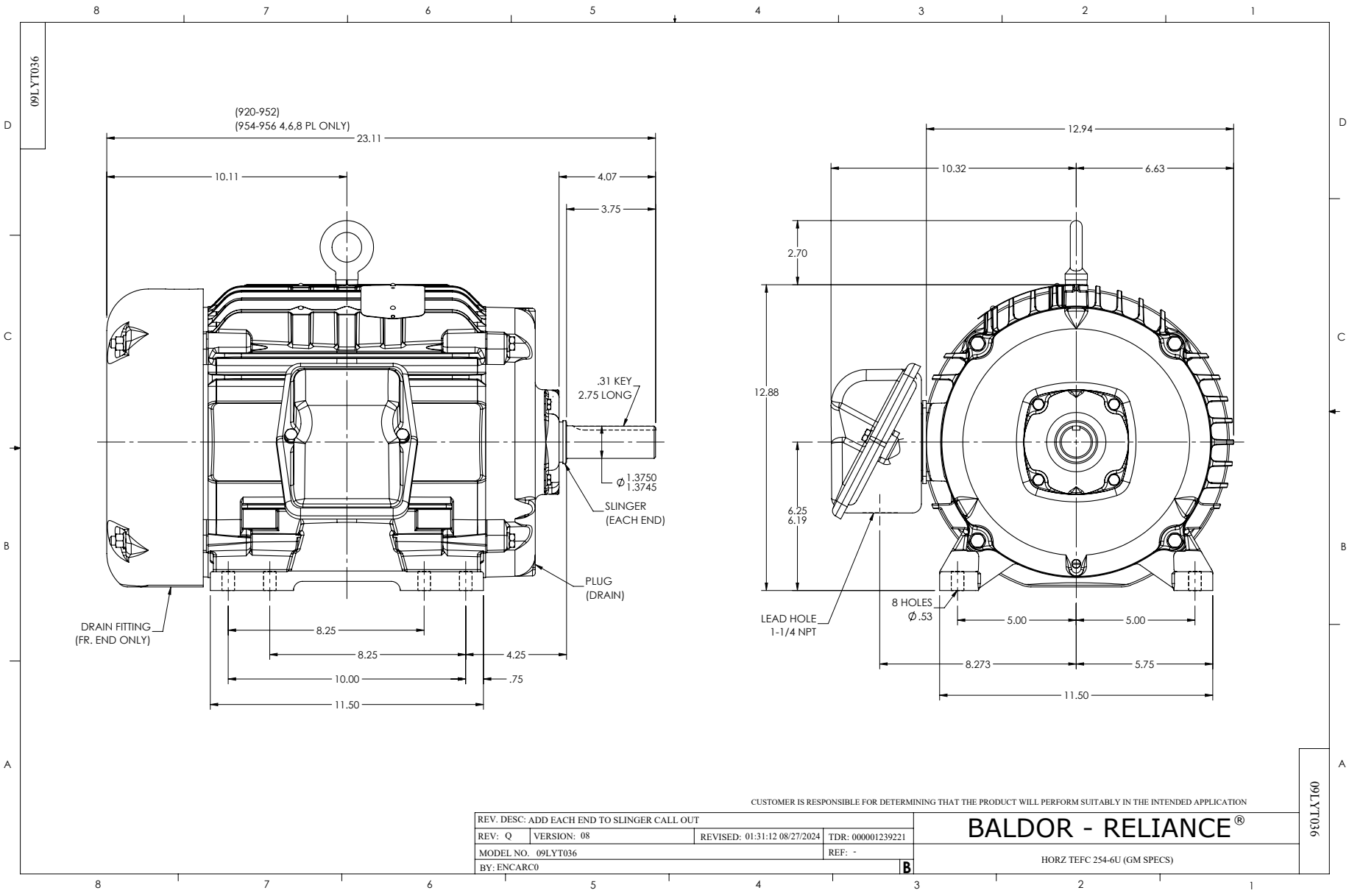
7.5 HP 3 PH 60 HZ 1765 RPM 460 V 0932M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=74.8 PU=30.5 LR=38.5 LRA=59.3

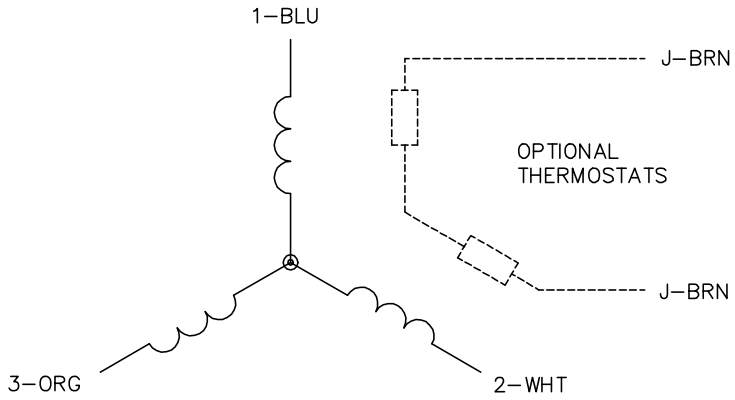


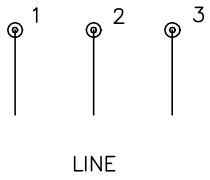
10/10/2026 ACPERF, record # 49357


09LYT036
(920-952)
(954-956 4,6,8 PL ONLY)
23.11
10.11
4.07
3.75
.31 KEY
2.75 LONG
Ø 1.3750
1.3745
SLINGER
(EACH END)
PLUG
(DRAIN)
DRAIN FITTING
(FR. END ONLY)
8.25
8.25
4.25
10.00
.75
11.50
12.94
10.32
6.63
2.70
12.88
6.25
6.19
LEAD HOLE
1-1/4 NPT
8 HOLES
Ø .53
5.00
5.00
8.273
5.75
11.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: ADD EACH END TO SLINGER CALL OUT
REV: Q
VERSION: 08
REVISED: 01:31:12 08/27/2024
TDR: 000001239221
MODEL NO. 09LYT036
REF: -
BY: ENCARC0
B
BALDOR - RELIANCE®
HORZ TEFC 254-6U (GM SPECS)
09LYT036

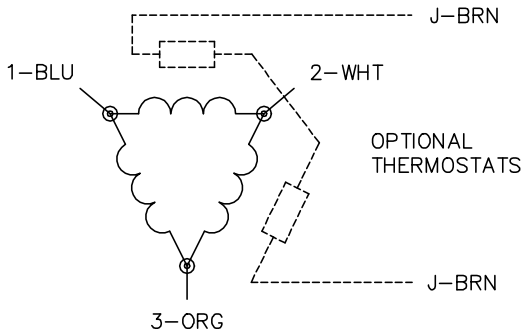
CD0006

TYPICAL WYE–CONNECTED MOTOR





TYPICAL DELTA–CONNECTED MOTOR



NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

REV. DESC: ADD CLASS CONN00000007		
REV. LTR: E	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\141	REVISED: 10:24:49 02/19/2019	BY: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

SH 1 of 1