

BALDOR • RELIANCE

Customer information packet

AEM2237-4

7.5HP, 1765RPM, 3PH, 60HZ, 254U, 0932M, TEFC, F

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	254U
Frame Material	Iron
Frequency	60.00 Hz
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
XP Class and Group	None
XP Division	Not Applicable
Agency Approvals	UR CSA
Ambient Temperature	65 °C
Auxillary Box	No Auxillary Box
Auxillary 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	L
Type	AC
Mech. spec.	09T36
Base	
Status	PRD/A
Elec. spec.	09WGT177
Layout	09LYT036
Eff. date	03-19-2021
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. @ 25°C	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-FT ²	

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

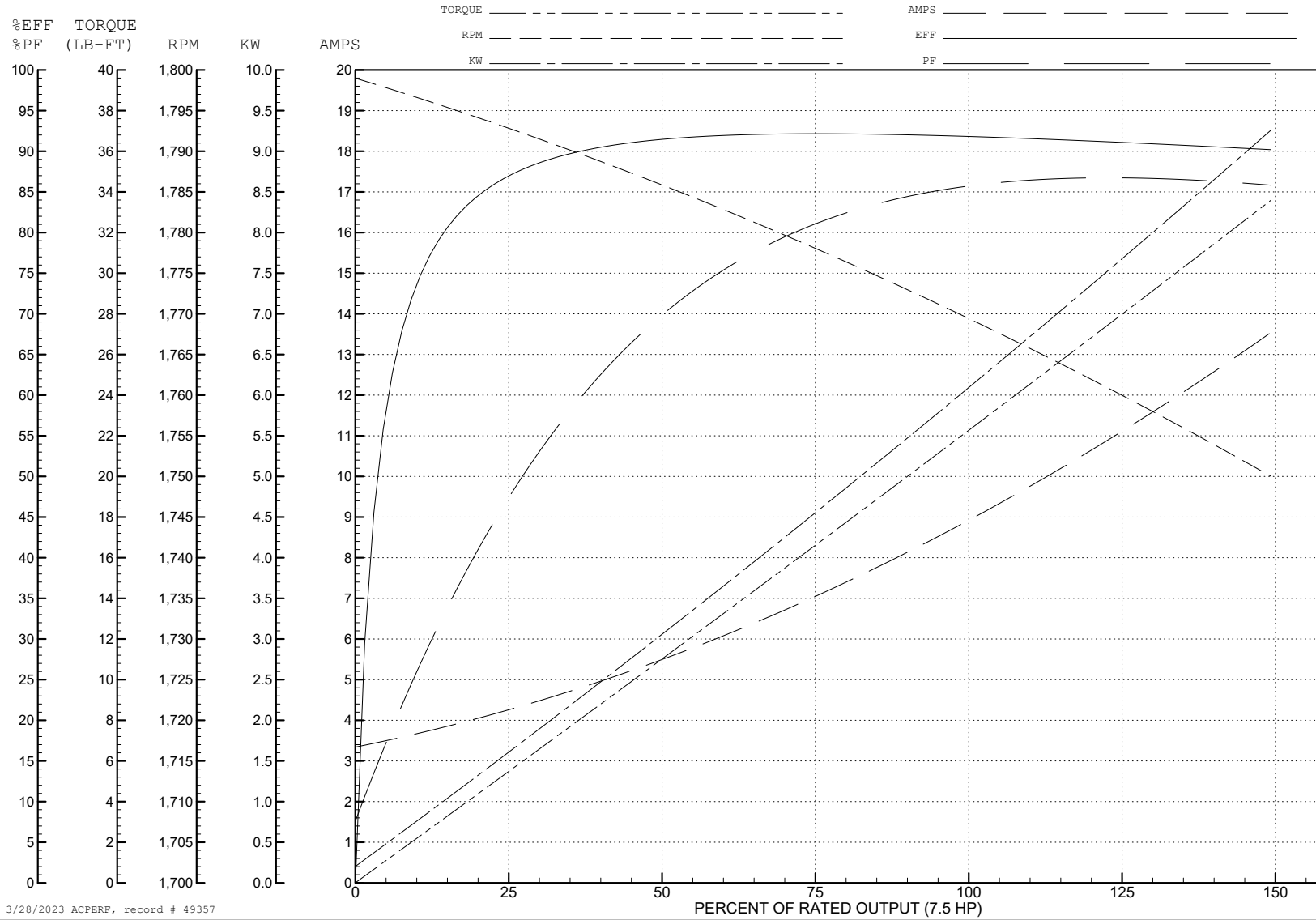
ABB Motors and Mechanical Inc.

WINDING # 09WGT177

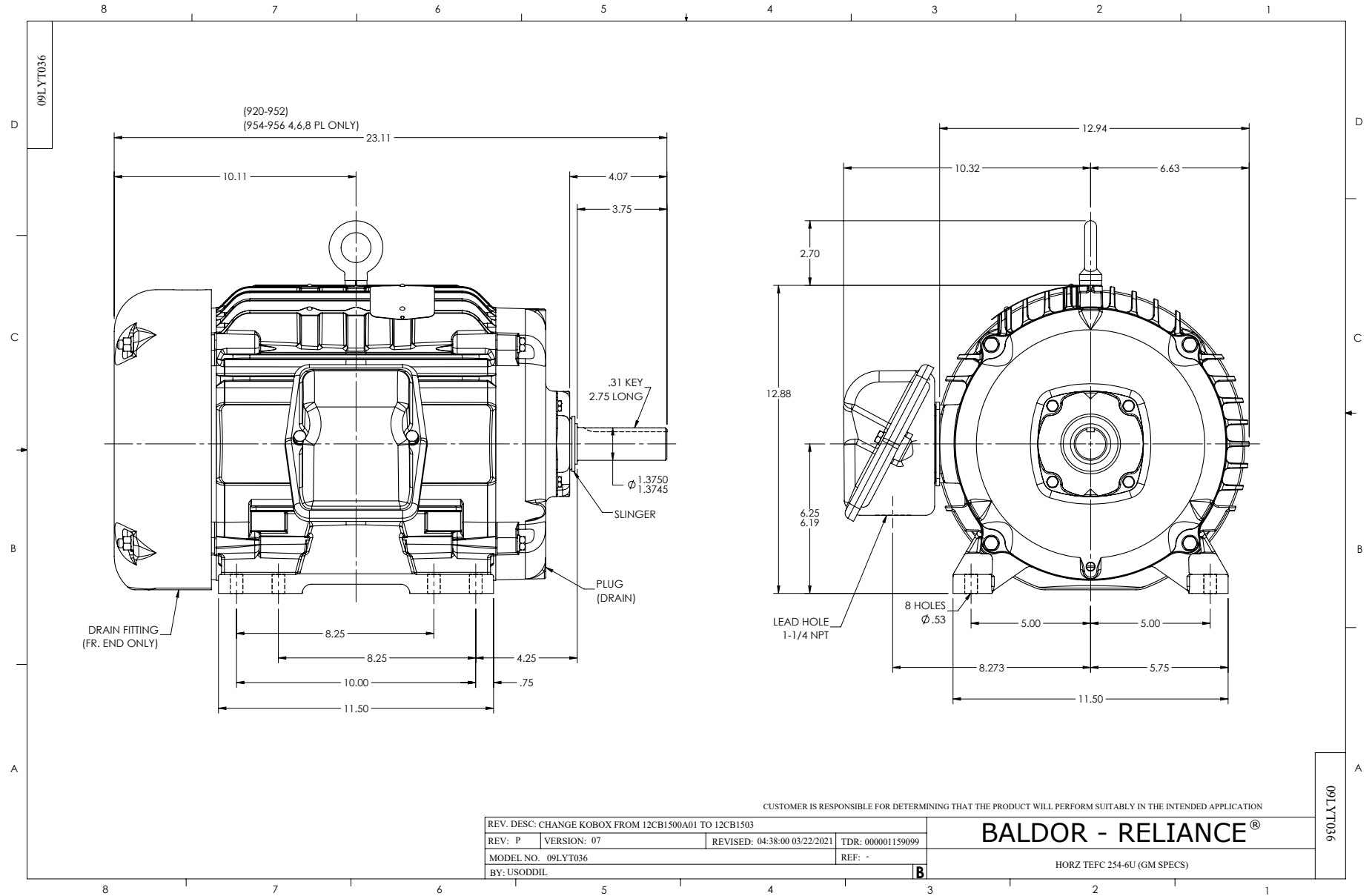
Typical performance - not guaranteed values.

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

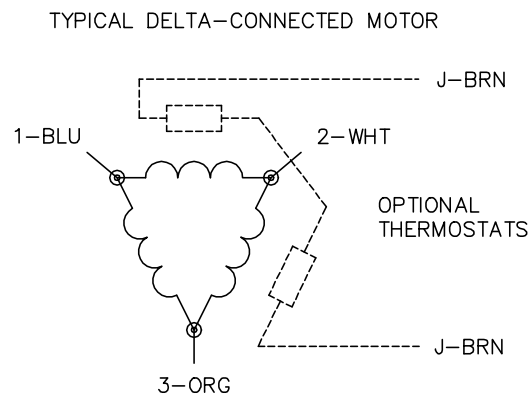
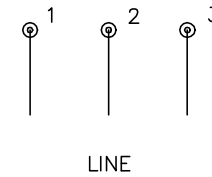
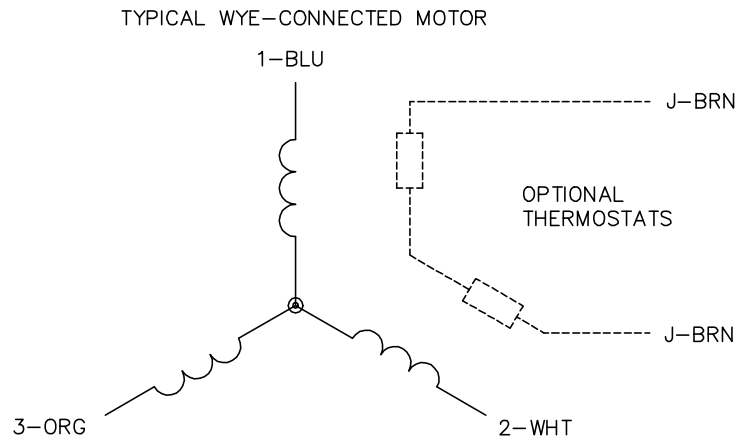
TORQUES (LB-FT): PO=74.8 PU=30.5 LR=38.5 LRA=59.3



3/28/2023 ACPERF, record # 49357



CD0006



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		
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BALDOR - RELIANCE®

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

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