

ABB BALDOR RELIANCE III

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
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	
NEMA Design Code		B		KVA Code		H	
Service Factor (S.F.)		1		No-load Current		3.5 A	
NEMA Nom. Eff.		91.7		Power Factor		82	
Rating - Duty		65C		AMB-CONT		Temp. Rise @ Rated Load	
						Locked-rotor Power Factor	
						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

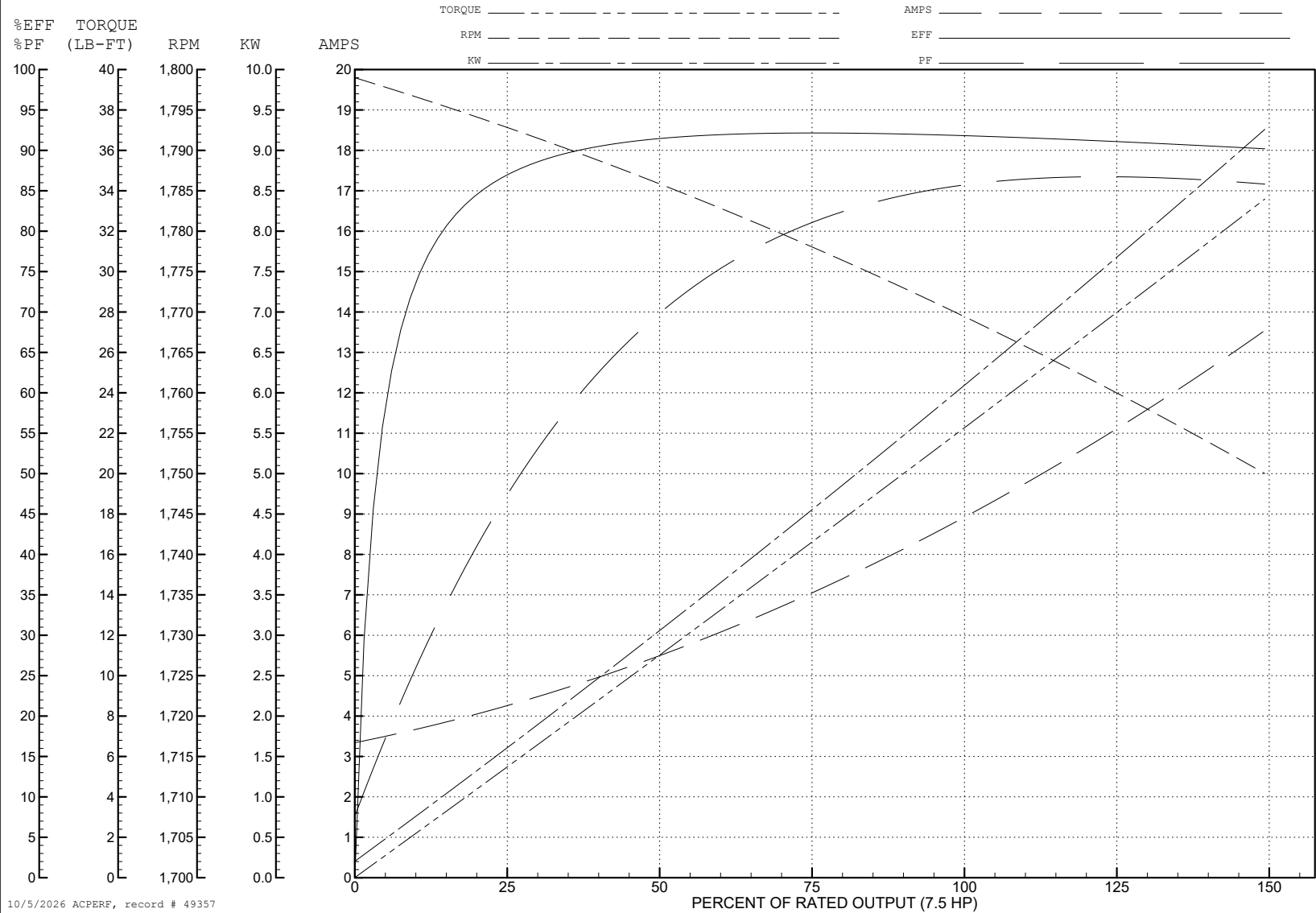
ABB Motors and Mechanical Inc.

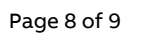
WINDING # 09WGT177

Typical performance - not guaranteed values.

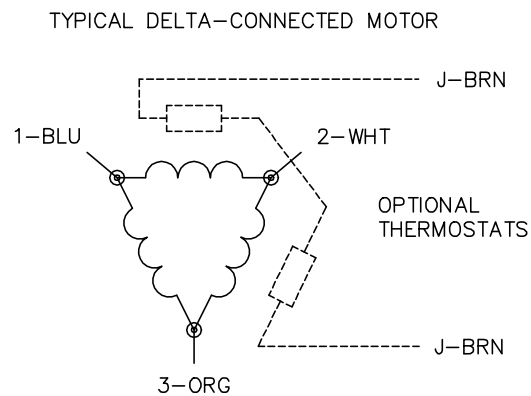
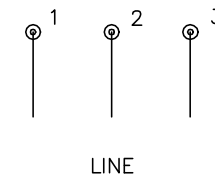
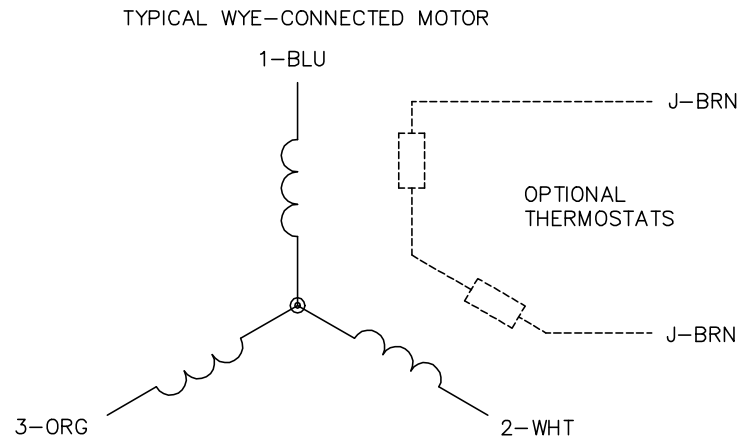
7.5 HP 3 PH 60 HZ 1765 RPM 460 V 0932M

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





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

REV. LTR: E

VERSION: 01

TDR: 000001099922

FILE: \AAA\00005\141

REVISED: 10:24:49 02/19/2019

BY: ENBRIRO

MTL: -


BALDOR - RELIANCE®

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

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