

ABB BALDOR RELIANCE III

Customer information packet

AEM2333-4

15HP, 1760RPM, 3PH, 60HZ, 284U, 0944M, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	284U
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	15.000 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	17.600 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	92.4 %
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	17.6 a
Insulation Class	F
Inverter Code	Inverter Ready

Part Detail

Revision	J
Type	AC
Mech. spec.	09F947
Base	
Status	PRD/A
Elec. spec.	09WGZ997
Layout	09LYF947
Eff. date	11-14-2023
CD Diagram	CD0006
Poles	04
Leads	3#12
Proprietary	False
Created date	11-08-2016

KVA Code	G
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	0944M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	26.33 IN
Power Factor	85
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	1.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1760 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.	AEM2333-4								
SPEC.	09F947Z997G1								
VOLTS	460								
AMP	17.6								
RPM	1760		HP	15					
FRAME	284U	HZ	60		PH	3			
SER.F.	1.00	CODE	G	DES	B	CL	F		
NEMA-NOM-EFF	92.4	PF	85						
G.MIN.EFF	91	CC	010A						
RATING	65C AMB-CONT								
LUBRICATION	POLYREX EM								
DE	6311	ODE	6208						
ENCL	TEFC	SER. #							

Accessories

Part number	Description	Multiplier
09-1310	C FACE KIT	A8

AC Induction Motor Performance Data

Record # 60281

Typical performance - not guaranteed values

Winding: 09WGZ997-R044			Type: 0944M		Enclosure: TEFC			
Nameplate Data			460 V, 60 Hz: Single Voltage Motor					
Rated Output (HP)		15	Full Load Torque		44.6 LB-FT			
Volts		460	Start Configuration		direct on line			
Full Load Amps		17.6	Breakdown Torque		163 LB-FT			
R.P.M.		1760	Pull-up Torque		53.3 LB-FT			
Hz	60	Phase	3	Locked-rotor Torque		73.2 LB-FT		
NEMA Design Code		B	KVA Code	G	Starting Current		108 A	
Service Factor (S.F.)		1	No-load Current		6.19 A			
NEMA Nom. Eff.		92.4	Power Factor		85	Line-line Res. @ 25°C		0.62 Ω
Rating - Duty		65C	AMB-CONT		Temp. Rise @ Rated Load		50°C	
					Locked-rotor Power Factor		32.6	
					Rotor inertia		1.92 LB-FT2	

Load Characteristics 460 V, 60 Hz, 15 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	52	73	84	86	87	88
Efficiency	89.4	92.6	93	92.5	91.4	90.3
Speed	1792	1783	1773	1763	1752	1739
Line amperes	7.44	10.3	13.5	17.6	22	26.6

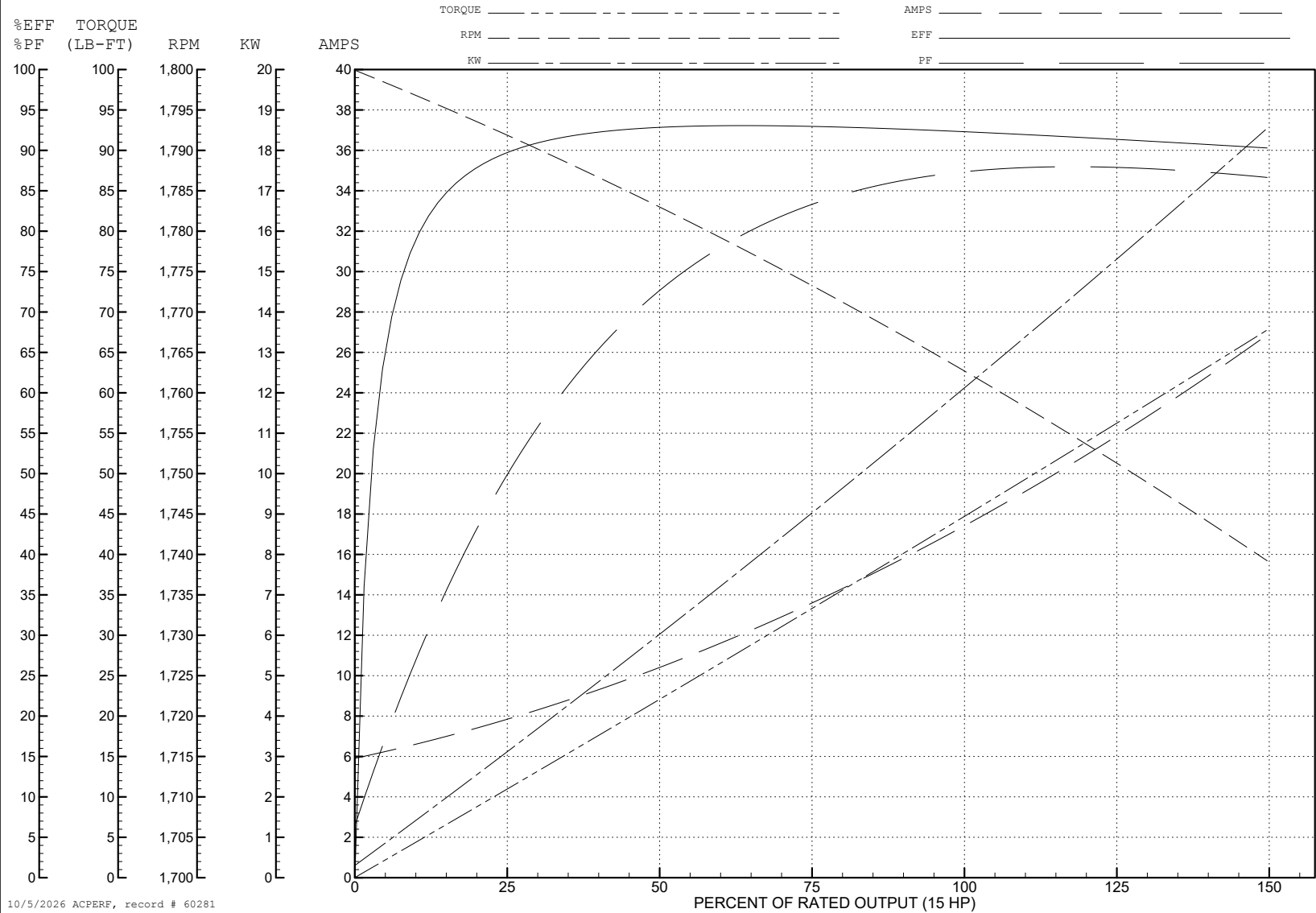
ABB Motors and Mechanical Inc.

WINDING # 09WGZ997

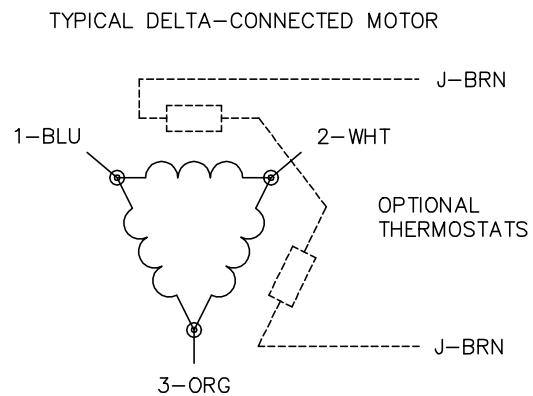
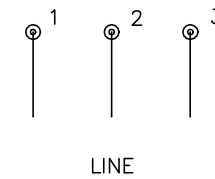
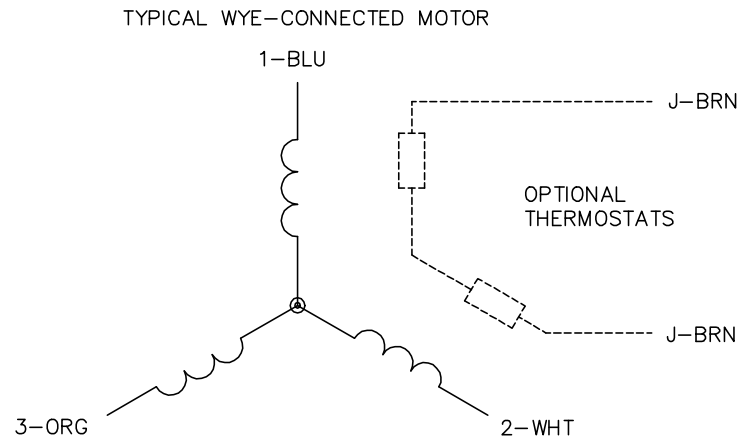
Typical performance - not guaranteed values.

15 HP 3 PH 60 HZ 1760 RPM 460 V 0944M

TORQUES (LB-FT): PO=163 PU=53.3 LR=73.2 LRA=108



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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