

ABB BALDOR RELIANCE III

Customer information packet

EM7067T-I-5

40HP, 3540RPM, 3PH, 60HZ, 324TS, 1252M, XPFC, F

Class - CLI GP C,D

Division - Division I

Specifications

Enclosure	XPFC
Frame	324TS
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP C,D
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	40.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	UL CSA CSA EEV UR
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	36.000 A @ 575.0 V
Design Code	A
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
Haz Area Temp Code	T3C
Heater Indicator	No Heater

Part Detail

Revision	R
Type	AC
Mech. spec.	12T060
Base	
Status	PRD/A
Elec. spec.	12WGY734
Layout	12LYT060
Eff. date	12-10-2024
CD Diagram	CD0006
Poles	02
Leads	3#10
Proprietary	False
Created date	11-20-2013

High Voltage Full Load Amps	36.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	X1252M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	30.50 IN
Power Factor	88
Product Family	General Purpose
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS NON-COMPLIANT
Service Factor	1.15
Shaft Diameter	1.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	3540 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None

Winding Thermal 2

None

Nameplate

NP0977XPSLEV												
NO.								CC	010A			
SER.								TEMP CODE			T3C	
SPEC.	12T060Y734G1											
CAT.NO.	EM7067T-I-5											
HP	40 NEMA MG-1 PT.5,IP55											
VOLTS	575											
AMPS	36											
RPM	3540				MOTOR WEIGHT				748			
HERTZ	60	PH	3	CL	F	DE BRG		6312				
SER.F.	1.15	DES	A	CODE		H	ODE BRG		6311			
FRAME	324TS		GREASE		POLYREX EM							
RATING	40C AMB-CONT											
				NEMA-NOM-EFF				92.4		PF	88	
	55C AMB @ 1.0 SF,60C RISE											

AC Induction Motor Performance Data

Record # 44034

Typical performance - not guaranteed values

Winding: 12WGY734-R001				Type: 1252M		Enclosure: XPFC		
Nameplate Data				575 V, 60 Hz: Single Voltage Motor				
Rated Output (HP)		40		Full Load Torque		59.3 LB-FT		
Volts		575		Start Configuration		direct on line		
Full Load Amps		36		Breakdown Torque		244 LB-FT		
R.P.M.		3540		Pull-up Torque		83.5 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		115 LB-FT		
NEMA Design Code		A	KVA Code	H		Starting Current		253 A
Service Factor (S.F.)		1.15		No-load Current		9.06 A		
NEMA Nom. Eff.		92.4	Power Factor	88		Line-line Res. @ 25°C		0.197 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		59°C		
S.F. Amps				Temp. Rise @ S.F. Load		71°C		
				Locked-rotor Power Factor		21		
				Rotor inertia		4.07 LB-FT2		

Load Characteristics 575 V, 60 Hz, 40 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	68	84	89	91	91	91	91
Efficiency	84.7	90.5	91.9	92.7	92	91.5	92.3
Speed	3587	3574	3560	3547	3532	3516	3538
Line amperes	12.9	19.6	27.4	35.7	44.7	54	41.1

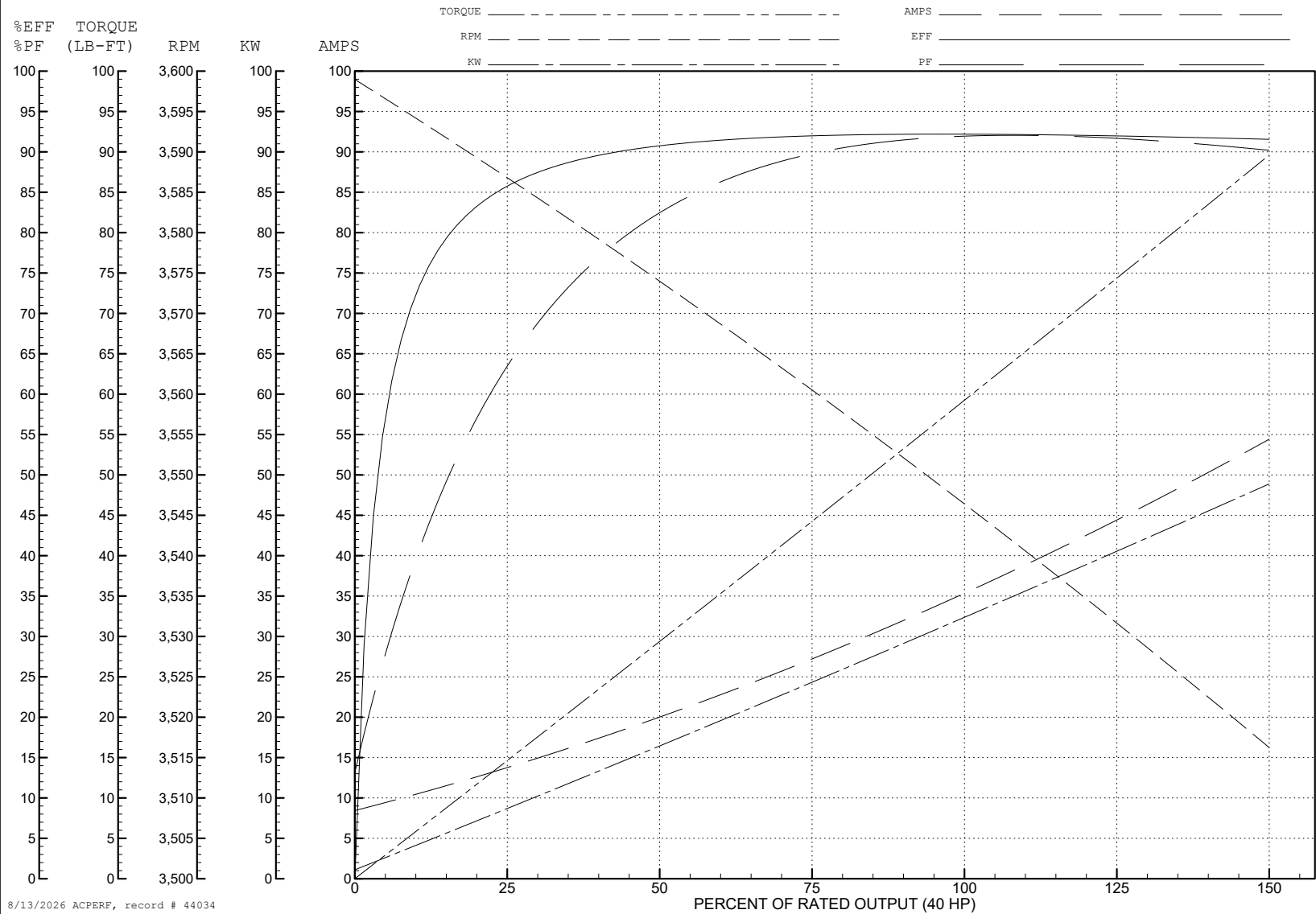
ABB Motors and Mechanical Inc.

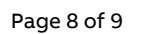
WINDING # 12WGY734

Typical performance - not guaranteed values.

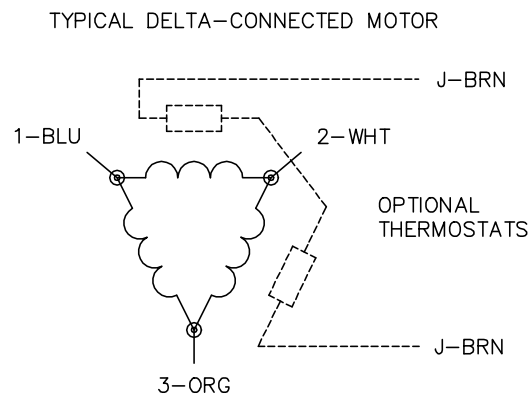
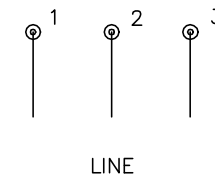
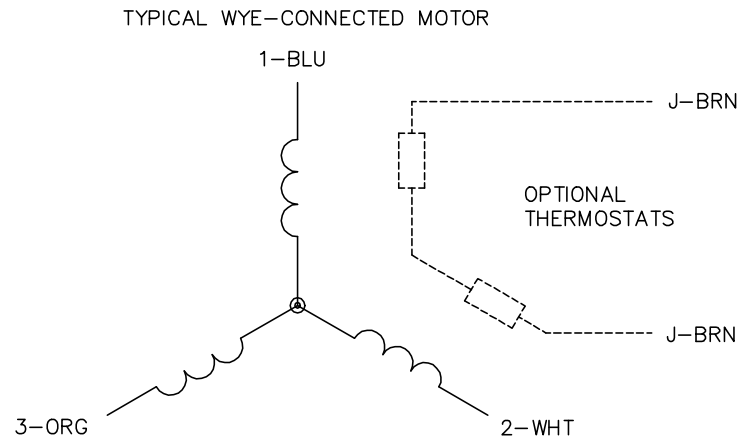
40 HP 3 PH 60 HZ 3540 RPM 575 V 1252M

TORQUES (LB-FT): PO=244 PU=83.5 LR=115 LRA=253





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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