

ABB BALDOR RELIANCE III

Customer information packet

EM3714T-5G

10HP, 1770RPM, 3PH, 60HZ, 215T, 3752M, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	215T
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	10.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	UR CSA CSA EEV
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	9.600 A @ 575.0 V
Design Code	A
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	9.6 a
Insulation Class	H

Part Detail

Revision	X
Type	AC
Mech. spec.	37J838
Base	
Status	PRD/A
Elec. spec.	37WGS829
Layout	37LYJ838
Eff. date	09-23-2024
CD Diagram	CD0006
Poles	04
Leads	3#14
Proprietary	False
Created date	02-09-2011

Inverter Code	Inverter Ready
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3752M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	20.51 IN
Power Factor	85
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.375 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1770 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

NP3441L											
CAT.NO.	EM3714T-5G										
SPEC.	37J838S829G1										
HP	10										
VOLTS	575										
AMP	9.6										
RPM	1770										
FRAME	215T		HZ	60				PH	3		
SER.F.	1.15	CODE	K	DES	A	CL	H				
NEMA-NOM-EFF	91.7	PF	85								
RATING	40C AMB-CONT										
CC	010A										
DE	6307		ODE	6206							
ENCL	TEFC	SN									
VPWM INVERTER READY											
CT6-60H(10:1)VT3-60H(20:1											

AC Induction Motor Performance Data

Record # 50484

Typical performance - not guaranteed values

Winding: 37WGS829-R005			Type: 3752M		Enclosure: TEFC		
Nameplate Data			575 V, 60 Hz: Single Voltage Motor				
Rated Output (HP)		10	Full Load Torque		29.5 LB-FT		
Volts		575	Start Configuration		direct on line		
Full Load Amps		9.6	Breakdown Torque		136 LB-FT		
R.P.M.		1770	Pull-up Torque		50 LB-FT		
Hz	60 Phase	3	Locked-rotor Torque		69.8 LB-FT		
NEMA Design Code		A	KVA Code		K	Starting Current	83.9 A
Service Factor (S.F.)		1.15	No-load Current		4.52 A		
NEMA Nom. Eff.		91.7	Power Factor		85	Line-line Res. @ 25°C	1.58 Ω
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		63°C		
S.F. Amps			Temp. Rise @ S.F. Load		78°C		
			Locked-rotor Power Factor		35.6		
			Rotor inertia		1.28 LB-FT2		

Load Characteristics 575 V, 60 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	41	65	78	85	83	87	84
Efficiency	88.4	92	92.7	91.9	90.8	88.9	91.2
Speed	1794	1787	1780	1772	1763	1753	1767
Line amperes	5.03	6.21	7.76	9.59	12.4	14.5	11.3

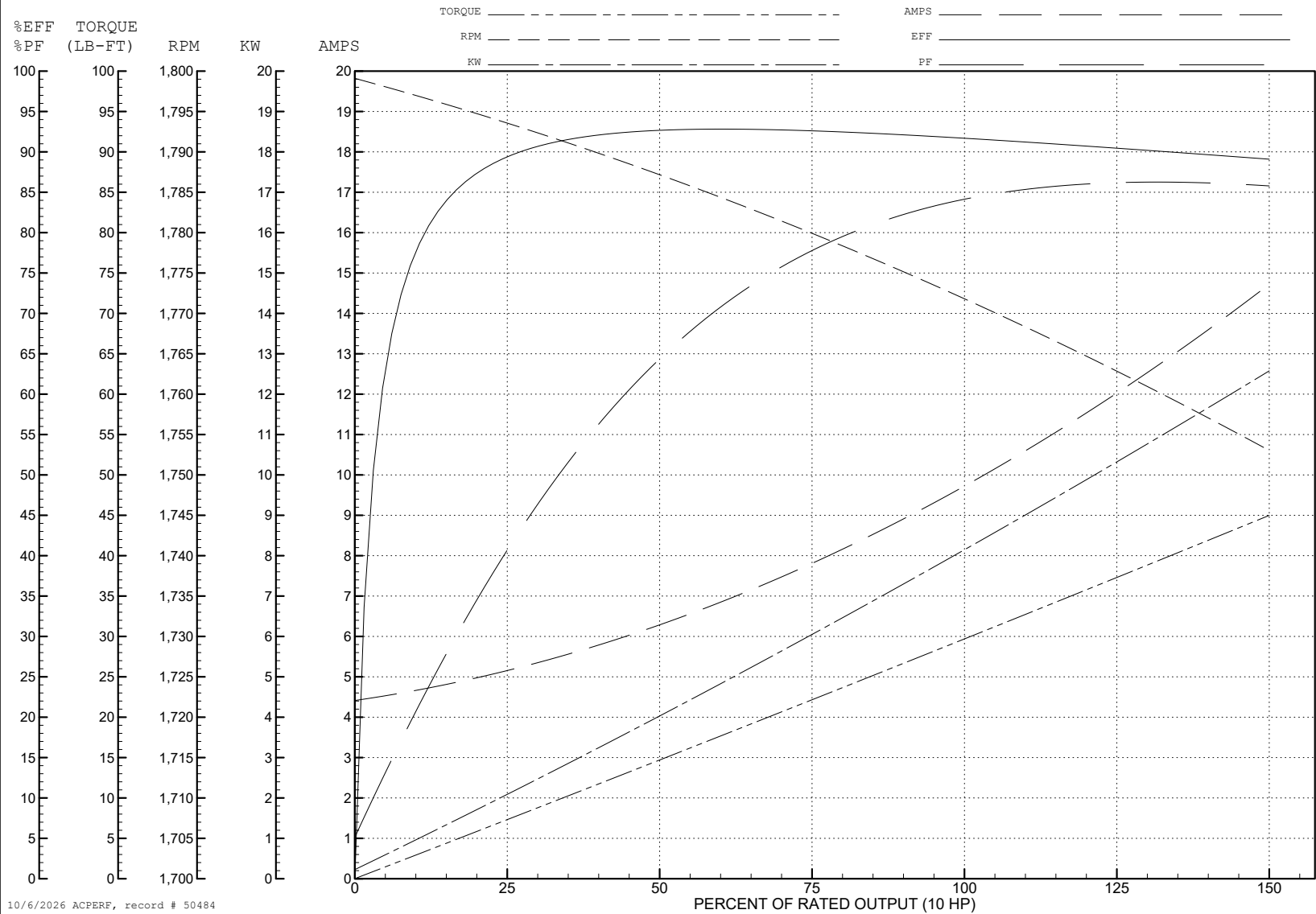
ABB Motors and Mechanical Inc.

WINDING # 37WGS829

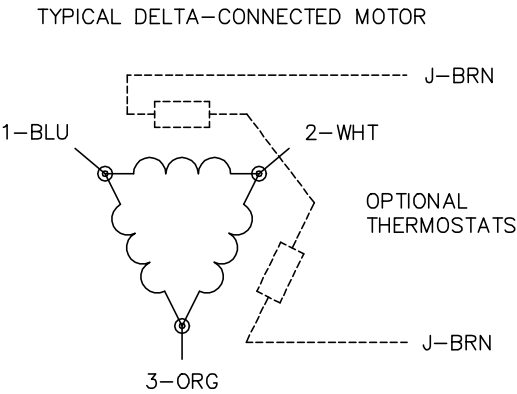
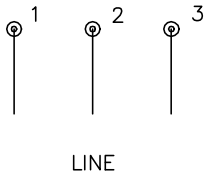
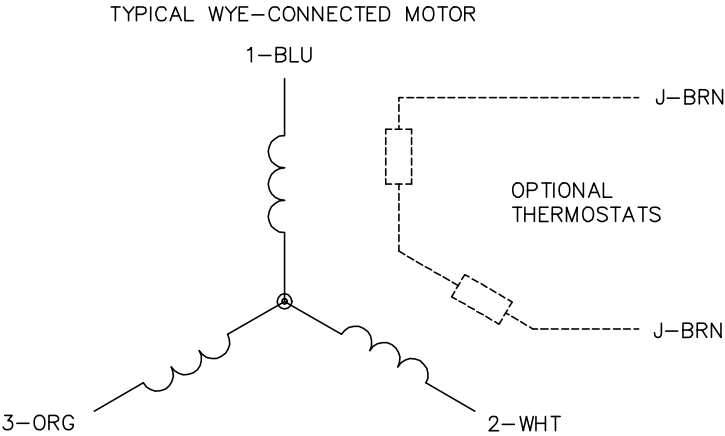
Typical performance - not guaranteed values.

10 HP 3 PH 60 HZ 1770 RPM 575 V 3752M

TORQUES (LB-FT): PO=136 PU=50 LR=69.8 LRA=83.9



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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