

ABB BALDOR RELIANCE III

Customer information packet

EFM3713T-G

15HP, 3500RPM, 3PH, 60HZ, 215T, 3752M, TEFC, F2

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	15.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	CSA EEV NEMA PREMIUM 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	34.000 A @ 230.0 V 36.800 A @ 208.0 V 17.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	B
Type	AC
Mech. spec.	37M820
Base	
Status	PRD/A
Elec. spec.	37WGR228
Layout	37LYM820
Eff. date	05-02-2024
CD Diagram	CD0180
Poles	02
Leads	9#14
Proprietary	False
Created date	03-31-2023

High Voltage Full Load Amps	17.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3752M
Mounting Arrangement	F2
Number of Poles	2
Overall Length	20.51 IN
Power Factor	89
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	1.375 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3500 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

NP3441LUA									
CAT.NO.	EFM3713T-G								
SPEC	37M820R228								
HP	15								
VOLTS	230/460								
AMPS	34/17								
RPM	3500								
FRAME	215T		HZ	60		PH	3		
SF	1.15	CODE	J	DES	A	CLASS	F		
NEMA NOM. EFF	91	PF	89						
RATING	40C AMB-CONT								
CC	010A								
ENCL	TEFC	SER							
DE	6307		ODE	6206					
VPWM INVERTER READY									
CT6-60H(10:1)VT3-60H(20:1									
	50HZ 15HP 190/380V 40.8/20.4A						SF1.0		

AC Induction Motor Performance Data

Record # 53380

Typical performance - not guaranteed values

Winding: 37WGR228-R023			Type: 3752M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		15	Full Load Torque		22.12 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		34/17	Breakdown Torque		103 LB-FT		
R.P.M.		3500	Pull-up Torque		40.16 LB-FT		
Hz	60 Phase	3	Locked-rotor Torque		57.59 LB-FT		
NEMA Design Code		A	KVA Code		J	Starting Current	150 A
Service Factor (S.F.)		1.15	No-load Current		5.55 A		
NEMA Nom. Eff.		91	Power Factor		89	Line-line Res. @ 25°C	0.47 Ω
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		68°C		
S.F. Amps			Temp. Rise @ S.F. Load		79°C		
			Locked-rotor Power Factor		30.9		
			Rotor inertia		0.474 LB-FT2		

Load Characteristics 460 V, 60 Hz, 15 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	56	78	85	89	90	90	89
Efficiency	86.8	91	91.9	91.4	90.8	89.8	91.3
Speed	3579	3557	3534	3500	3484	3456	3495
Line amperes	6.7	9.57	13.19	17.03	21.12	25.61	19.5

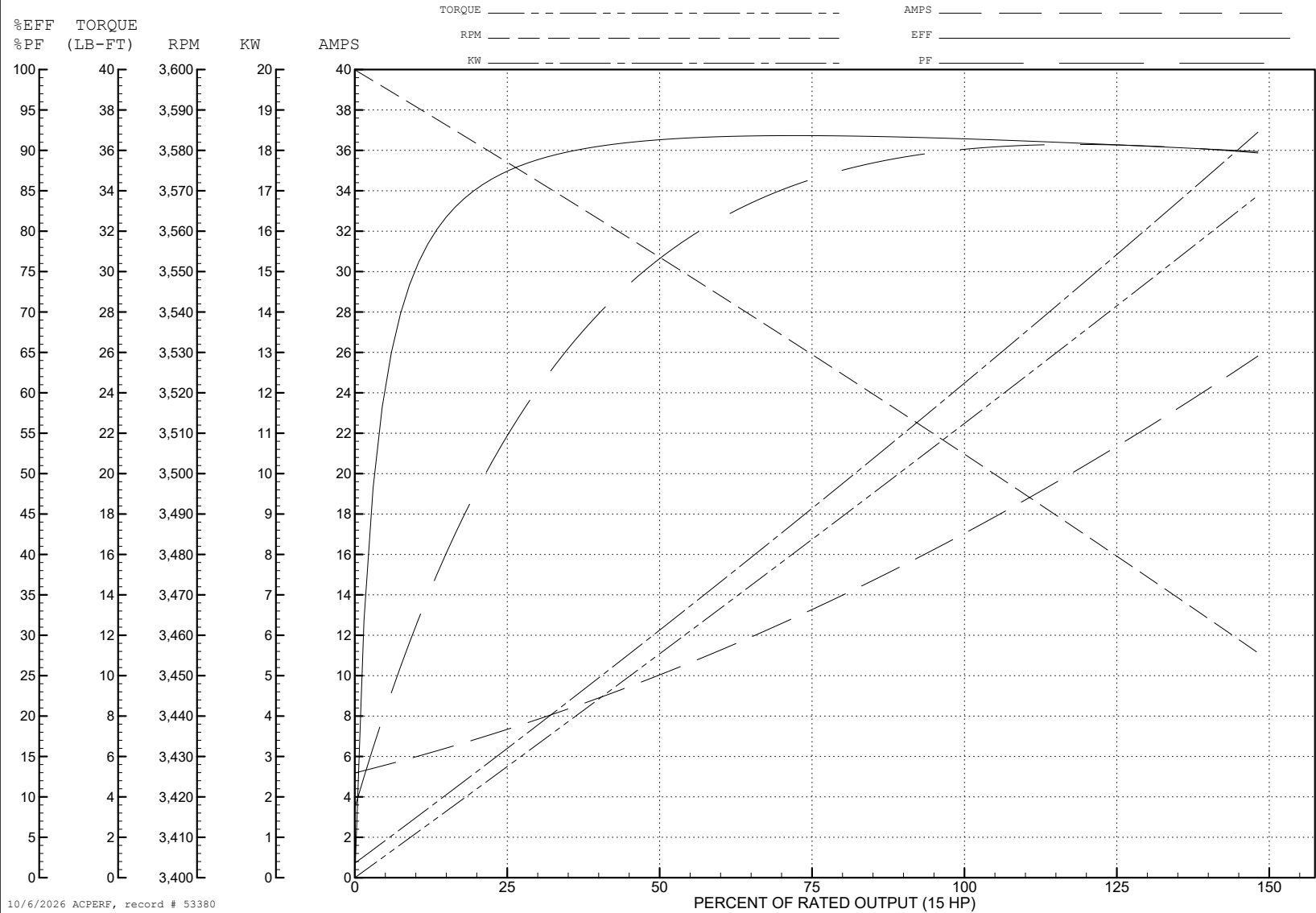
ABB Motors and Mechanical Inc.

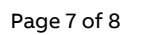
WINDING # 37WGR228

Typical performance - not guaranteed values.

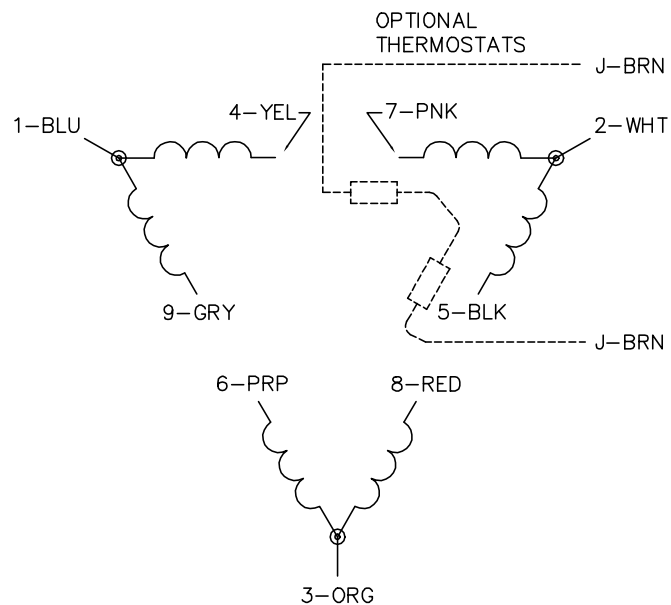
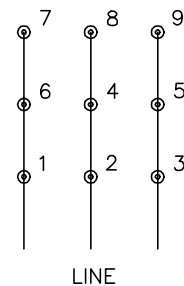
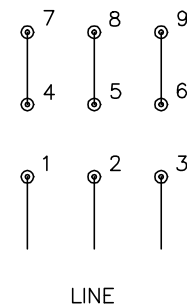
15 HP 3 PH 60 HZ 3500 RPM 460 V 3752M

TORQUES (LB-FT): PO=103 PU=40.16 LR=57.59 LRA=150





CD0180


 LOW VOLTAGE
(2D)

 HIGH VOLTAGE
(1D)

NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0180

REV. DESC: ADD CLASS CONN00000007

REV. LTR: D

VERSION: 01

TDR: 000001099922

FILE: \AAA\00005\148

REVISED: 10: 25: 29 02/19/2019

BY: ENBRIRO

MTL: -


BALDOR - RELIANCE®

3PH, DV, 9 LEADS, DELTA CONNECTION

SH 1 of 1