

ABB BALDOR RELIANCE III

Customer information packet

EM3704T-5

3HP, 1160RPM, 3PH, 60HZ, 213T, 3738M, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	213T
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	3.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	NEMA PREMIUM CURUSEEV NEMA PREMIUM (OLD LOGO)
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	3.700 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
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	3.7 a
Insulation Class	F

Part Detail

Revision	M
Type	AC
Mech. spec.	37G813
Base	
Status	PRD/A
Elec. spec.	37WGS884
Layout	37LYG813
Eff. date	12-18-2025
CD Diagram	CD0006
Poles	06
Leads	3#14
Proprietary	False
Created date	08-04-2010

Inverter Code	Inverter Ready
KVA Code	L
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No 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	3738M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	19.01 IN
Power Factor	68
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 Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1160 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.	EM3704T-5										
SPEC.	37G813S884G1										
HP	3										
VOLTS	575										
AMP	3.7										
RPM	1160										
FRAME	213T		HZ	60				PH	3		
SER.F.	1.15	CODE	L	DES	B	CL	F				
NEMA-NOM-EFF	89.5	PF	68								
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 # 32109

Typical performance - not guaranteed values

Winding: 37WGS884-R001			Type: 3738M		Enclosure: TEFC		
Nameplate Data			575 V, 60 Hz: Single Voltage Motor				
Rated Output (HP)		3	Full Load Torque		13.4 LB-FT		
Volts		575	Start Configuration		direct on line		
Full Load Amps		3.7	Breakdown Torque		50.8 LB-FT		
R.P.M.		1160	Pull-up Torque		32.1 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		34.2 LB-FT	
NEMA Design Code		B	KVA Code	L	Starting Current		27.5 A
Service Factor (S.F.)		1.15	No-load Current		2.07 A		
NEMA Nom. Eff.		89.5	Power Factor	68	Line-line Res. @ 25°C		4.19 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		38°C
S.F. Amps					Temp. Rise @ S.F. Load		45°C
					Locked-rotor Power Factor		23
					Rotor inertia		0.945 LB-FT2

Load Characteristics 575 V, 60 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	30	50	62	69	73	75	70
Efficiency	82	88.5	89.4	89.7	89.1	87.6	89
Speed	1193	1186	1178	1170	1160	1150	1166
Line amperes	2.21	2.57	3.07	3.64	4.36	5.13	4.12

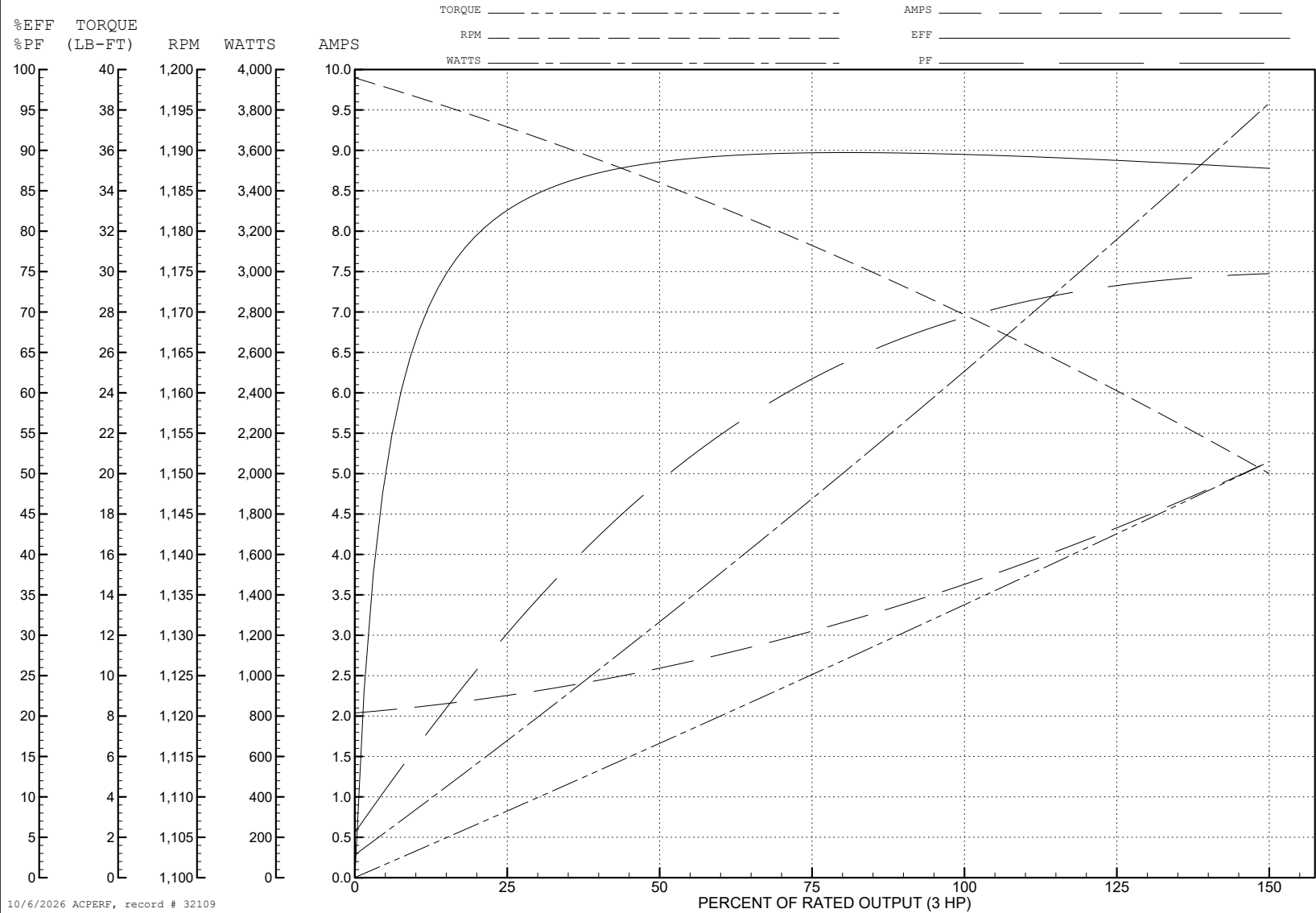
ABB Motors and Mechanical Inc.

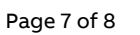
WINDING # 37WGS884

Typical performance - not guaranteed values.

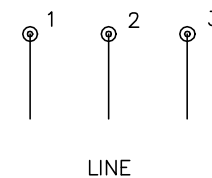
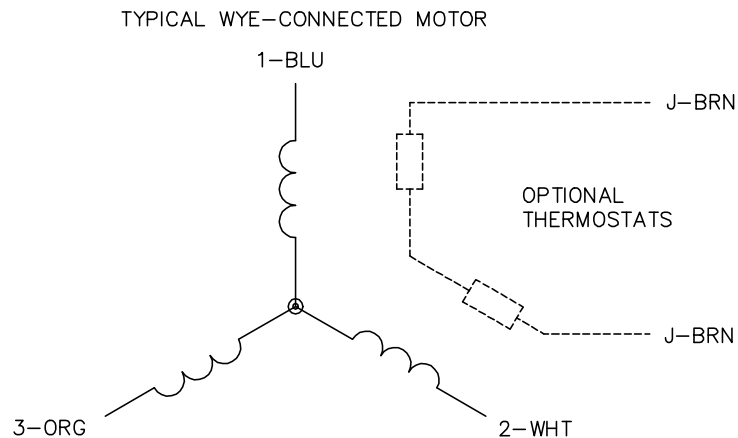
3 HP 3 PH 60 HZ 1160 RPM 575 V 3738M

TORQUES (LB-FT): PO=50.8 PU=32.1 LR=34.2 LRA=27.5





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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