

ABB BALDOR RELIANCE III

Customer information packet

CEM3711T-5

10HP, 3490RPM, 3PH, 60HZ, 215TC, 3728M, TEFC, F

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	215TC
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	3600 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	9.500 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	90.2 %
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	9.5 a
Insulation Class	F

Part Detail

Revision	P
Type	AC
Mech. spec.	37G814
Base	
Status	PRD/A
Elec. spec.	37WGR021
Layout	37LYG814
Eff. date	05-02-2024
CD Diagram	CD0006
Poles	02
Leads	3#14
Proprietary	False
Created date	11-28-2011

Inverter Code	Inverter Ready
KVA Code	G
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	3728M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	18.63 IN
Power Factor	87
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
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	3490 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.	CEM3711T-5										
SPEC.	37G814R021G1										
HP	10										
VOLTS	575										
AMP	9.5										
RPM	3490										
FRAME	215TC		HZ	60				PH	3		
SER.F.	1.15	CODE	G	DES	B	CL	F				
NEMA-NOM-EFF	90.2	PF	87								
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 # 36090

Typical performance - not guaranteed values

Winding: 37WGR021-R001			Type: 3728M		Enclosure: TEFC	
Nameplate Data			575 V, 60 Hz: Single Voltage Motor			
Rated Output (HP)		10	Full Load Torque			15 LB-FT
Volts		575	Start Configuration			direct on line
Full Load Amps		9.5	Breakdown Torque			47.2 LB-FT
R.P.M.		3490	Pull-up Torque			22.7 LB-FT
Hz	60	Phase	3	Locked-rotor Torque		26.4 LB-FT
NEMA Design Code	B	KVA Code	G	Starting Current		62.9 A
Service Factor (S.F.)		1.15	No-load Current			3.53 A
NEMA Nom. Eff.	90.2	Power Factor	87	Line-line Res. @ 25°C		1.48 Ω
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load			78°C
S.F. Amps			Temp. Rise @ S.F. Load			97°C
			Locked-rotor Power Factor			33
			Rotor inertia			0.255 LB-FT2

Load Characteristics 575 V, 60 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	50	72	82	86	88	89	88
Efficiency	86.7	90.9	91.4	90.8	89.3	87.7	90
Speed	3576	3548	3517	3484	3448	3406	3463
Line amperes	4.15	5.65	7.43	9.57	11.8	14.4	10.8

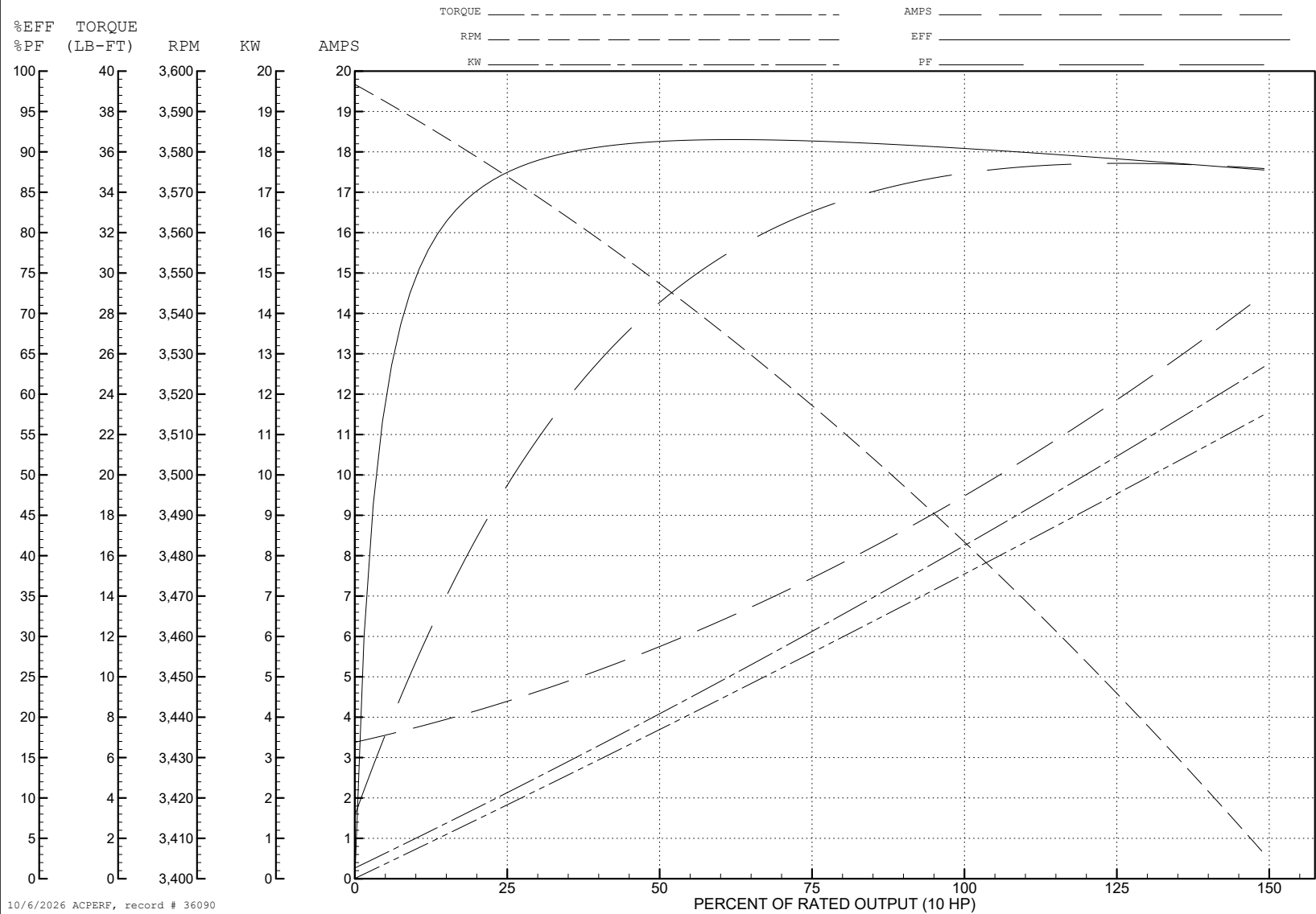
ABB Motors and Mechanical Inc.

WINDING # 37WGR021

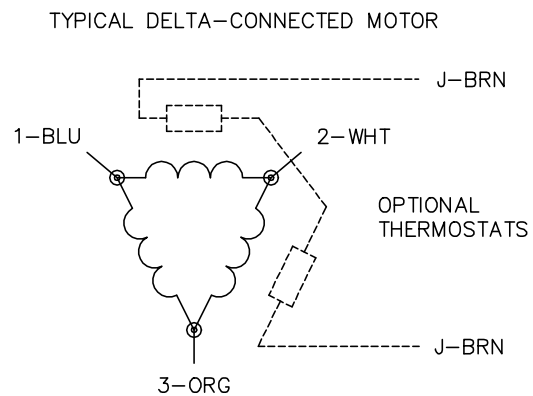
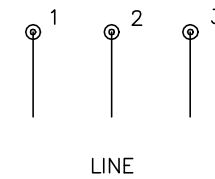
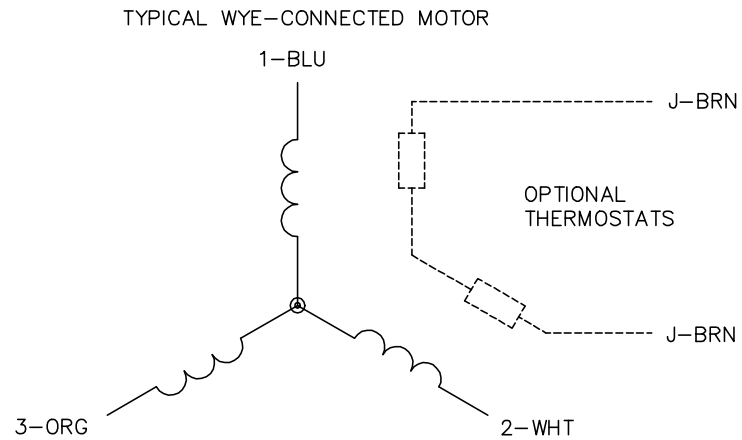
Typical performance - not guaranteed values.

10 HP 3 PH 60 HZ 3490 RPM 575 V 3728M

TORQUES (LB-FT) : PO=47.2 PU=22.7 LR=26.4 LRA=62.9



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

SH 1 of 1