

ABB BALDOR RELIANCE III

Customer information packet

EM7042T-5

3HP, 1760RPM, 3PH, 60HZ, 182T, 3632M, XPFC, F1

Class - CLI GP D; CLII GP F,G

Division - Division I

Specifications

Enclosure	XPFC
Frame	182T
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP D; CLII GP F,G
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	3.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 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	3.300 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
Haz Area Temp Code	T3C
Heater Indicator	No Heater

Part Detail

Revision	J
Type	AC
Mech. spec.	36N004
Base	
Status	PRD/A
Elec. spec.	36WGS582
Layout	36LYN004
Eff. date	02-15-2024
CD Diagram	CD0006
Poles	04
Leads	3#16
Proprietary	False
Created date	09-30-2010

High Voltage Full Load Amps	3.3 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3632M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	17.42 IN
Power Factor	75
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	1.00
Shaft Diameter	1.125 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1760 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

NP1426XPSLEV									
NO.			CC		010A				
SER.									
SPEC.	36N004S582G1								
CAT.NO.	EM7042T-5								
HP	3	T. CODE			T3C				
VOLTS	575								
AMPS	3.3								
RPM	1760								
HZ	60	PH		3	CL		B		
SER.F.	1.00	DES		B		CODE		K	
RATING	40C AMB-CONT								
FRAME	182T	NEMA-NOM-EFF						89.5	
			PF		75				
BLANK									

AC Induction Motor Performance Data

Record # 35736

Typical performance - not guaranteed values

Winding: 36WGS582-R002			Type: 3631M		Enclosure: XPFC		
Nameplate Data			575 V, 60 Hz: Single Voltage Motor				
Rated Output (HP)		3	Full Load Torque		8.88 LB-FT		
Volts		575	Start Configuration		direct on line		
Full Load Amps		3.3	Breakdown Torque		33.9 LB-FT		
R.P.M.		1760	Pull-up Torque		19.5 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		23 LB-FT	
NEMA Design Code		B	KVA Code	K	Starting Current		25.9 A
Service Factor (S.F.)		1	No-load Current		1.9 A		
NEMA Nom. Eff.		89.5	Power Factor	75	Line-line Res. @ 25°C		6 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		40°C	
S.F. Amps				Temp. Rise @ S.F. Load		47°C	
				Locked-rotor Power Factor		43	
				Rotor inertia		0.289 LB-FT2	

Load Characteristics 575 V, 60 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	33	54	67	75	79	82
Efficiency	80.5	87.7	89.5	89.6	89	87.6
Speed	1791	1782	1772	1762	1750	1738
Line amperes	2.03	2.34	2.77	3.34	3.97	4.66

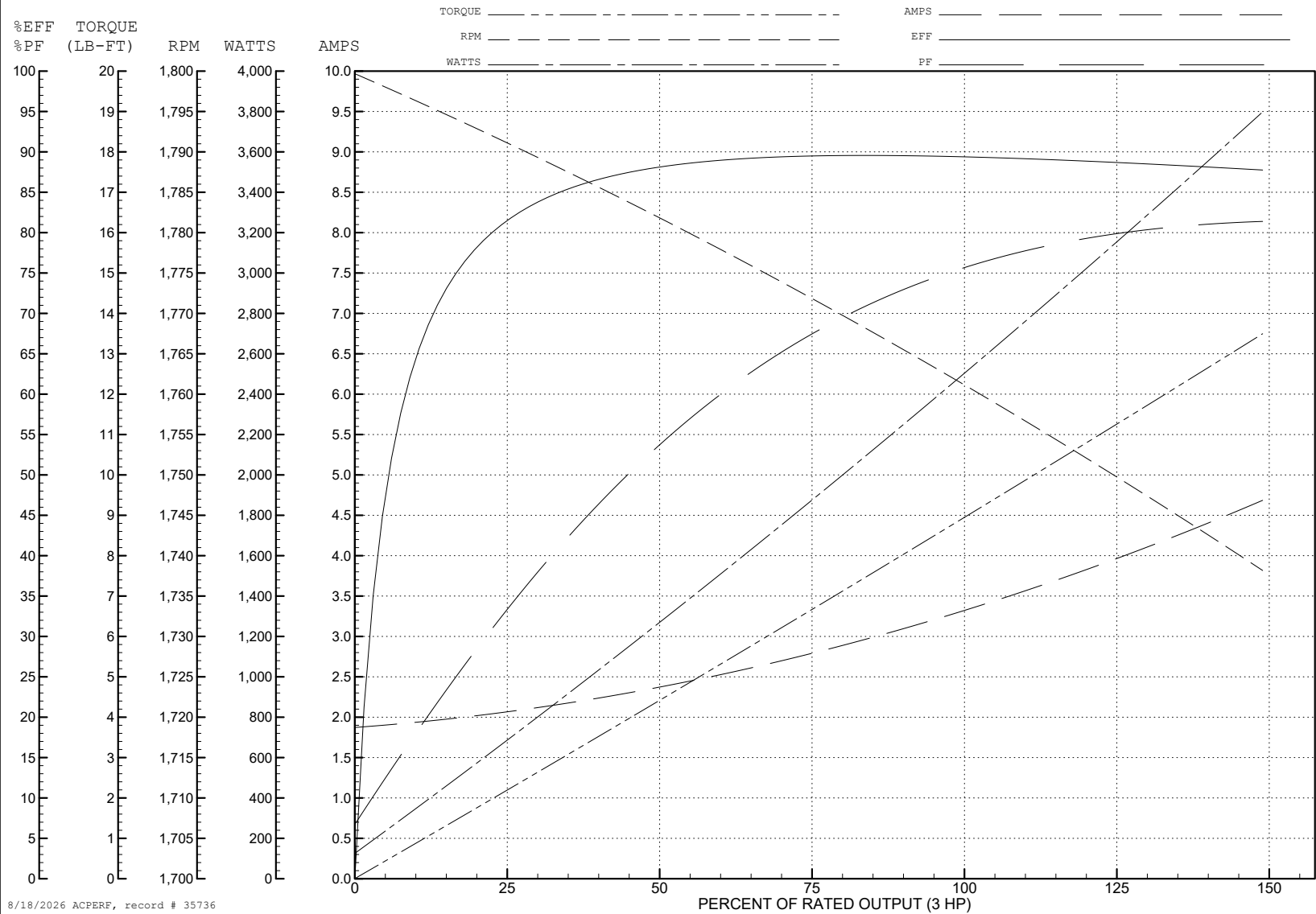
ABB Motors and Mechanical Inc.

WINDING # 36WGS582

Typical performance - not guaranteed values.

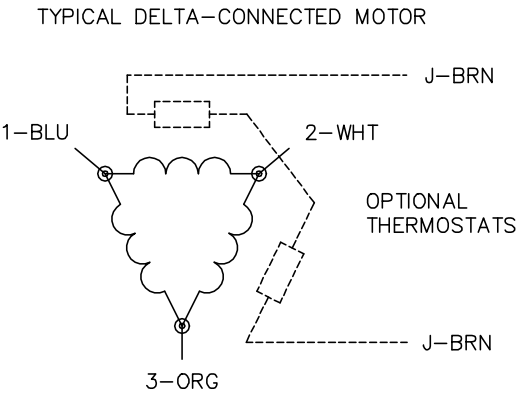
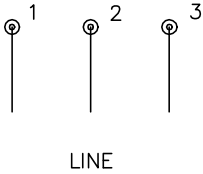
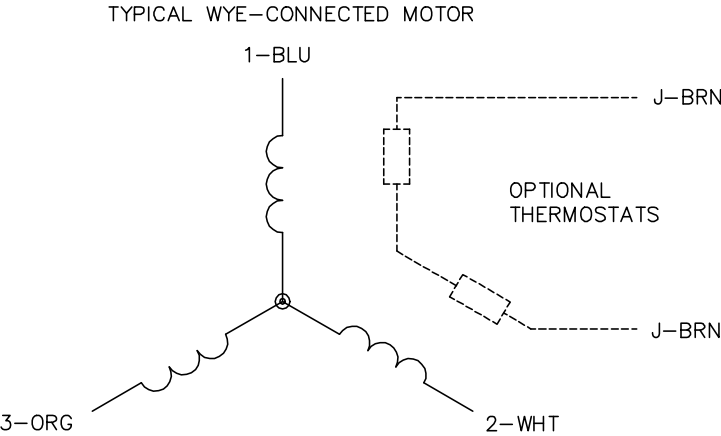
3 HP 3 PH 60 HZ 1760 RPM 575 V 3631M

TORQUES (LB-FT): PO=33.9 PU=19.5 LR=23 LRA=25.9





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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