

ABB BALDOR RELIANCE III

Customer information packet

EM7071T-I-5

2HP, 3490RPM, 3PH, 60HZ, 145T, 3526M, XPFC, F1

Class - CLI GP C,D

Division - Division I

Specifications

Enclosure	XPFC
Frame	145T
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP C,D
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	2.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 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	2.000 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	85.5 %
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	N
Type	AC
Mech. spec.	35X081
Base	
Status	PRD/A
Elec. spec.	35WGM831
Layout	35LYX081
Eff. date	12-12-2025
CD Diagram	CD0006
Poles	02
Leads	3#18
Proprietary	False
Created date	05-08-2014

High Voltage Full Load Amps	2.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	M
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3526M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	15.09 IN
Power Factor	88
Product Family	Hazardous Location Motor
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 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	Normally Closed Thermostat
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP0977XPSLEV												
NO.							CC	010A				
SER.							TEMP CODE			T3C		
SPEC.	35X081M831G1											
CAT.NO.	EM7071T-I-5											
HP	2											
VOLTS	575											
AMPS	2											
RPM	3490				MOTOR WEIGHT							
HERTZ	60	PH	3	CL	F	DE BRG	6205					
SER.F.	1.00	DES	B	CODE		M	ODE BRG		6203			
FRAME	145T		GREASE		POLYREX EM							
RATING	40C AMB-CONT											
				NEMA-NOM-EFF				85.5		PF	88	
	NEMA MG-1 PT 5,IP55											

AC Induction Motor Performance Data

Record # 45902

Typical performance - not guaranteed values

Winding: 35WGM831-R007			Type: 3526M		Enclosure: XPFC	
Nameplate Data				575 V, 60 Hz: Single Voltage Motor		
Rated Output (HP)		2		Full Load Torque		2.98 LB-FT
Volts		575		Start Configuration		direct on line
Full Load Amps		2		Breakdown Torque		14.4 LB-FT
R.P.M.		3490		Pull-up Torque		6.42 LB-FT
Hz		60		Phase		3
NEMA Design Code		B		KVA Code		M
Service Factor (S.F.)		1		No-load Current		0.745 A
NEMA Nom. Eff.		85.5		Power Factor		88
Rating - Duty		40C		AMB-CONT		
				Temp. Rise @ Rated Load		44°C
				Locked-rotor Power Factor		50.1
				Rotor inertia		0.0719 lb-ft²

Load Characteristics 575 V, 60 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	54	74	84	88	90	91
Efficiency	73.2	83.6	85.5	86.3	85.7	84.7
Speed	3572	3547	3521	3493	3463	3428
Line amperes	0.895	1.19	1.55	1.96	2.4	2.89

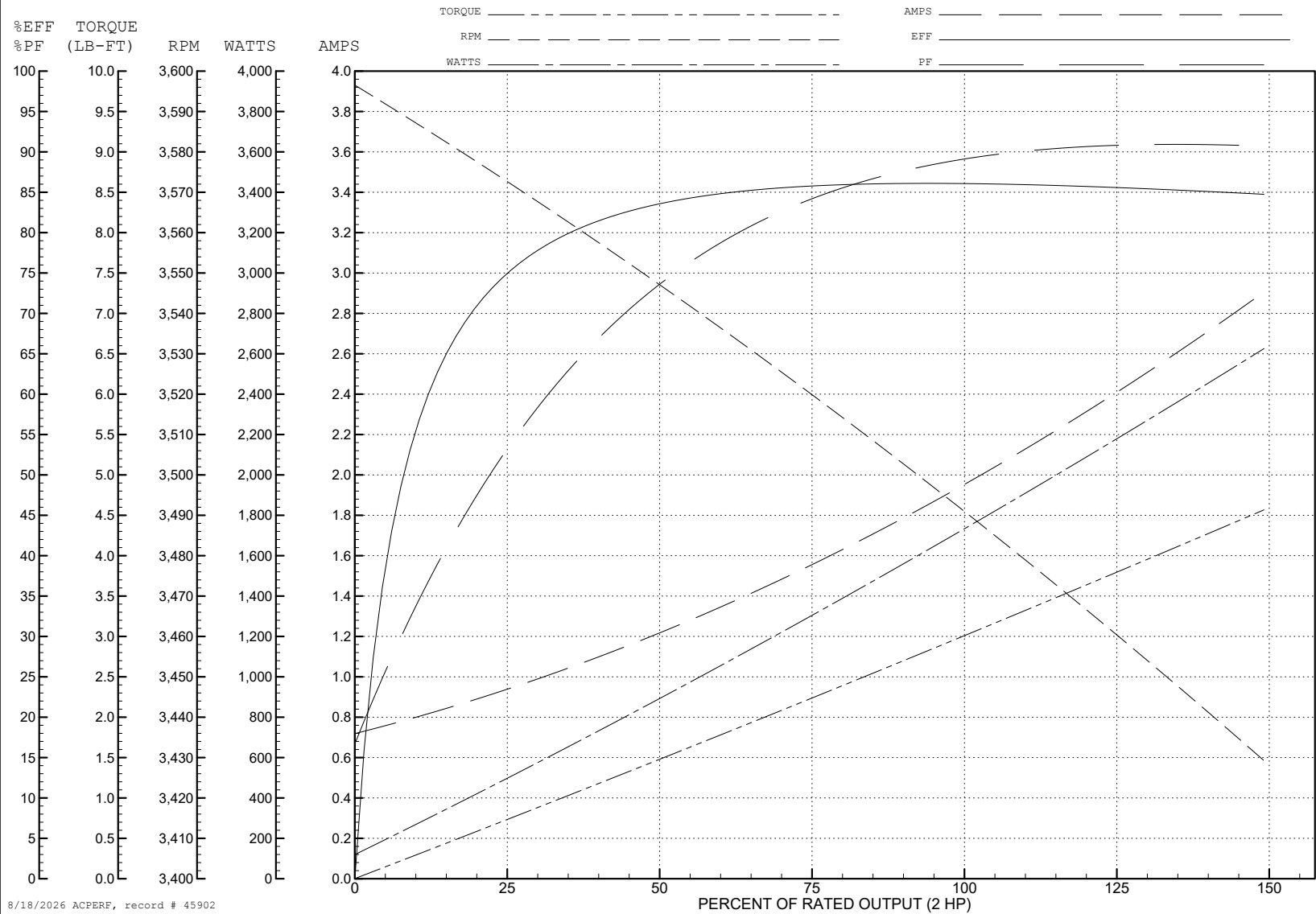
ABB Motors and Mechanical Inc.

WINDING # 35WGM831

Typical performance - not guaranteed values.

2 HP 3 PH 60 HZ 3490 RPM 575 V 3526M

TORQUES (LB-FT): PO=14.4 PU=6.42 LR=11.4 LRA=21



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