

ABB BALDOR RELIANCE III

Customer information packet

XM14222T-5

26M 2P XPFC HOR 145T T'STATS INVERTER

Class - CLI GP D; CLII GP F,G

Division - Division I

Specifications

Enclosure	XPFC
Frame	145T
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	2.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	CSA EEV UL
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
Constant Torque Speed Range	1.8
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 Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	2.0 a
Insulation Class	F

Part Detail

Revision	D
Type	AC
Mech. spec.	35Q558
Base	
Status	PRD/A
Elec. spec.	35WGM831
Layout	35LYQ558
Eff. date	04-29-2021
CD Diagram	CD0006
Poles	02
Leads	3#18
Proprietary	False
Created date	12-13-2018

Inverter Code	Inverter Duty
IP Rating	NONE
KVA Code	M
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Max Speed	5400 rpm
Motor Lead Quantity/Wire Size	3 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	X3526M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	15.21 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 NON-COMPLIANT
Service Factor	1.00
Shaft Diameter	0.875 IN
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

NP0887XPSLEV											
NO.						CC	010A				
S/N						TEMP CODE		T3C			
SPEC.	35Q558M831G1					INV.TYPE		PWM			
CAT.NO.	XM14222T-5					C HP FR	60		C HP TO	90	
HP	2					CT HZ FROM		1.8		CT HZ TO	60
VOLTS	575					VT HZ FROM		1.8		VT HZ TO	60
AMPS	2					MAG CUR		.8			
RPM	3490					MX RPM		5400			
HZ	60	PH	3	CL	F	NOM.EFF.		85.5			
SER.F.	1.00	DES	B	SL HZ	1.8	WK2	0.07				
FRAME	145T	RATING		40C AMB-CONT							
	55C AMB AT 1.00 SF SINEWAVE										
	NEMA MG-1 PART 5, IP54					1.15 SF SINEWAVE					

AC Induction Motor Performance Data

Record # 73836

Typical performance - not guaranteed values

Winding: 35WGM831-R009			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	Locked-rotor Torque		11.4 LB-FT	
NEMA Design Code		B	KVA Code	M		Starting Current	21 A
Service Factor (S.F.)		1		No-load Current		0.745 A	
NEMA Nom. Eff.		85.5	Power Factor	88		Line-line Res. @ 25°C	10.7 Ω
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	85.6	84.6
Speed	3572	3547	3521	3493	3463	3428
Line amperes	0.895	1.19	1.55	1.96	2.4	2.89

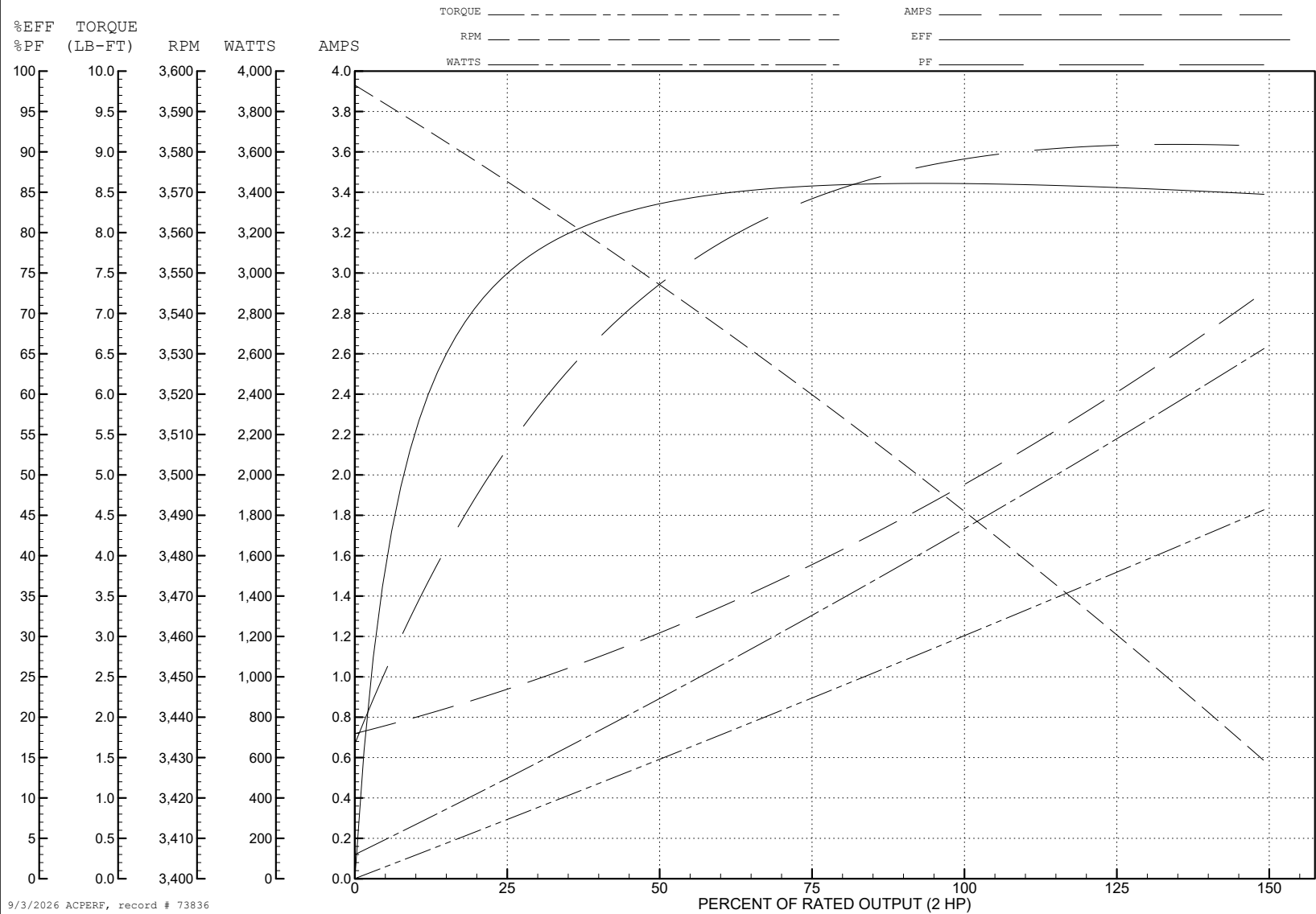
ABB Motors and Mechanical Inc.

WINDING # 35WGM831

Typical performance - not guaranteed values.

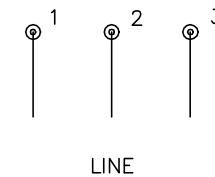
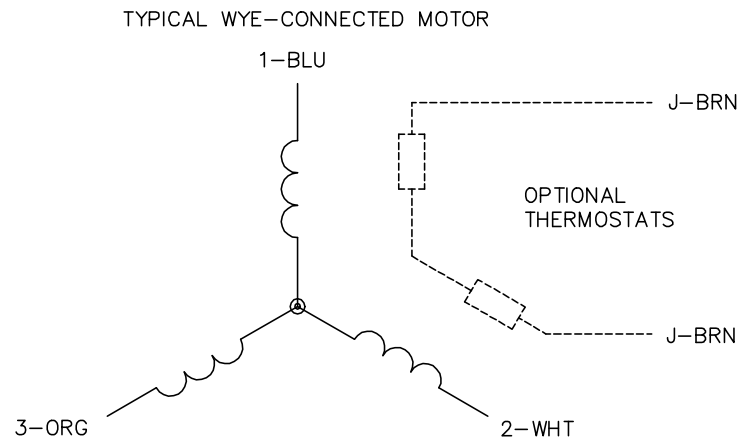
2 HP 3 PH 60 HZ 3490 RPM 575 V 3526M

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

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