

ABB BALDOR RELIANCE III

Customer information packet

FPM2514T-5

20HP, 3450RPM, 3PH, 60HZ, 254T, 3742M, OPSB, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	OPSB
Frame	254T
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	20.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	UL CSA EEV
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	18.500 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	18.5 a
Insulation Class	F
Inverter Code	Not Inverter

Part Detail

Revision	F
Type	AC
Mech. spec.	37N756
Base	
Status	PRD/A
Elec. spec.	37WGR925
Layout	37LYN756
Eff. date	07-24-2020
CD Diagram	CD0006
Poles	02
Leads	3#12
Proprietary	False
Created date	07-21-2016

KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3742M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	22.25 IN
Power Factor	90
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	1.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3450 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
NP3454L

CAT.NO.	FPM2514T-5				CUST P/N					I.P.	23	
SPEC.	37N756R925H1				SER.NO.					FRAME	254T	
HZ	60	HP	20		RPM	3450	HZ		HP		RPM	
VOLTS	575				CODE	G	VOLTS				CODE	
AMPS	18.5				DES	B	AMPS				DES	
EFF	90.2	SER.F.	1.15		PF	90	EFF			SER.F.		PF
RATING	40C AMB-CONT				DE BRG	6309	GREASE	POLYREX EM				
BLANK					ODE BRG	6206	MTR. WT.	145				
					CLASS	F	PH	3				
					ENCL	OPSB	CC	010A				
HTR-VOLTS	N/A	HTR-AMPS	N/A	HTR-WATTS	N/A							

AC Induction Motor Performance Data

Record # 58311

Typical performance - not guaranteed values

Winding: 37WGR925-R001			Type: 3742M		Enclosure: OPSB		
Nameplate Data			575 V, 60 Hz: Single Voltage Motor				
Rated Output (HP)		20	Full Load Torque		30.3 LB-FT		
Volts		575	Start Configuration		direct on line		
Full Load Amps		18.5	Breakdown Torque		92.8 LB-FT		
R.P.M.		3450	Pull-up Torque		47.8 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		53.8 LB-FT	
NEMA Design Code		B	KVA Code	G	Starting Current		113 A
Service Factor (S.F.)		1.15	No-load Current		5.07 A		
NEMA Nom. Eff.		90.2	Power Factor	90	Line-line Res. @ 25°C		0.745 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		65°C	
S.F. Amps				Temp. Rise @ S.F. Load		82°C	
				Locked-rotor Power Factor		31.6	
				Rotor inertia		0.383 LB-FT2	

Load Characteristics 575 V, 60 Hz, 20 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	62	81	87	89	90	90	90
Efficiency	91.8	92.8	92.3	90.6	88.5	86.2	89.3
Speed	3566	3530	3493	3451	3400	3344	3420
Line amperes	6.75	10.1	14	18.4	23.5	29.1	21.5

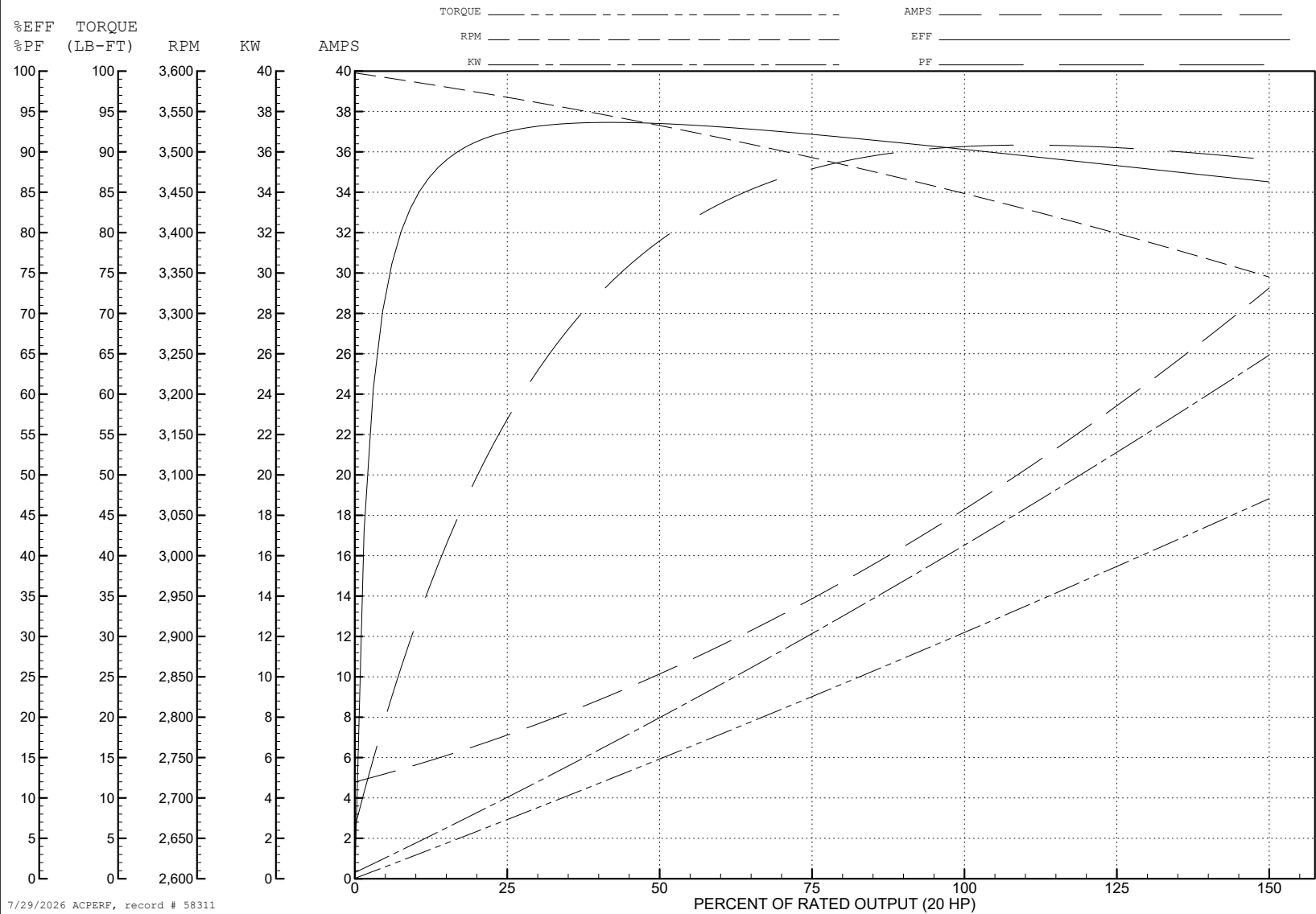
ABB Motors and Mechanical Inc.

WINDING # 37WGR925

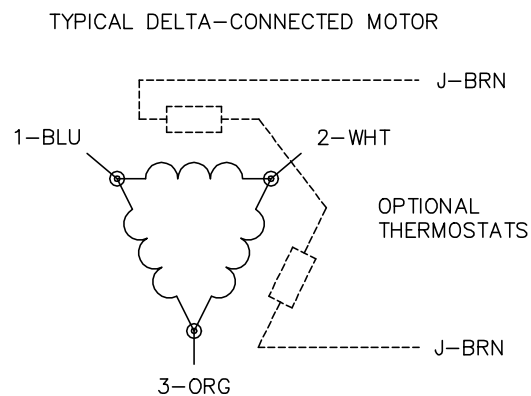
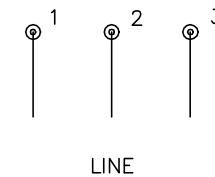
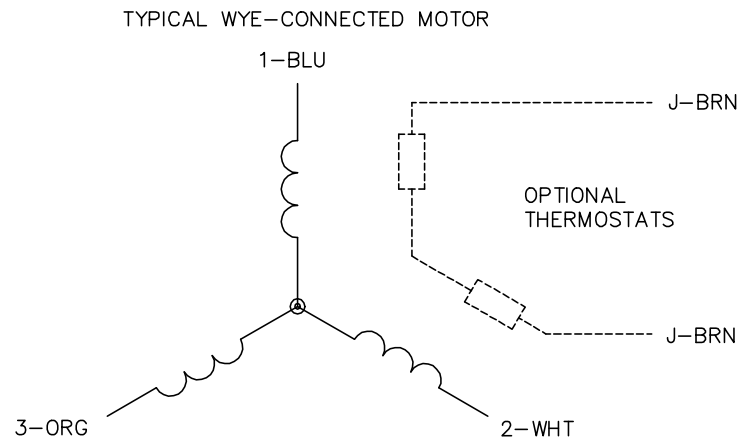
Typical performance - not guaranteed values.

20 HP 3 PH 60 HZ 3450 RPM 575 V 3742M

TORQUES (LB-FT) : PO=92.8 PU=47.8 LR=53.8 LRA=113



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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