

ABB BALDOR RELIANCE III

Customer information packet

FPM2546T

60//50HP, 3520//2920RPM, 3PH, 60//50HZ, 326T

Specifications

Enclosure	ODP
Frame	326TS
Frame Material	Steel
Frequency	50.00 Hz 60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	60.000 HP @ 60 HZ 50.000 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 190.0 V @ 50 HZ 460.0 V @ 60 HZ 380.0 V @ 50 HZ
Agency Approvals	CSA EEV UL UR CSA
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	69.000 A @ 380.0 V 68.000 A @ 460.0 V 138.000 A @ 190.0 V 136.000 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.0 %

Part Detail

Revision	M
Type	AC
Mech. spec.	40H07
Base	
Status	PRD/A
Elec. spec.	40WGX318
Layout	40LYH007
Eff. date	07-24-2023
CD Diagram	CD0104
Poles	02
Leads	12#8
Proprietary	False
Created date	09-16-2015

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	68.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	12 @ 8 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	4062M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	25.69 IN
Power Factor	89
Product Family	Fire Pump Motor
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	2920 rpm 3520 rpm
Speed Code	Single Speed

Starting Method	Wye Start - Delta Run
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.	FPM2546T				CUST P/N				I.P.				23			
SPEC.	40H007X318H2				SER.NO.				FRAME				326TS			
HZ	60	HP	60		RPM	3520		HZ	50		HP	50		RPM	2920	
VOLTS	230/460				CODE	G		VOLTS	190/380				CODE	F		
AMPS	136/68				DES	B		AMPS	138/69				DES	B		
EFF	93	SER.F.		1.15		PF	89		EFF	91.7		SER.F.	1.15		PF	89
RATING	40C AMB-CONT					DE BRG		6312			GREASE		POLYREX EM			
BLANK						ODE BRG		6309			MTR. WT.		390			
						CLASS		F		PH	3					
						ENCL		ODP			CC	010A				
HTR-VOLTS			HTR-AMPS				HTR-WATTS									

AC Induction Motor Performance Data

Record # 55052

Typical performance - not guaranteed values

Winding: 40WGX318-R001			Type: 4062M		Enclosure: OPSB			
Nameplate Data				460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		60//50		Full Load Torque		89.6 LB-FT		
Volts		230/460//190/380		Start Configuration		direct on line		
Full Load Amps		136/68//138/69		Breakdown Torque		205 LB-FT		
R.P.M.		3520//2920		Pull-up Torque		115 LB-FT		
Hz		60//50	Phase	3	Locked-rotor Torque		150 LB-FT	
NEMA Design Code		B		KVA Code	G	Starting Current		431 A
Service Factor (S.F.)		1.15		No-load Current		16.9 A		
NEMA Nom. Eff.		93	Power Factor		89	Line-line Res. @ 25°C		0.11624 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		47°C		
S.F. Amps				Temp. Rise @ S.F. Load		60°C		
				Locked-rotor Power Factor		22.2		

Load Characteristics 460 V, 60 Hz, 60 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	65	83	88	89	90	89	90
Efficiency	92.1	94.1	93.9	93.1	92	90.6	92.4
Speed	3581.9	3565	3545.4	3523.9	3501.1	3473.4	3510
Line amperes	23.8	36.1	50.8	67.6	85.1	104	78.1

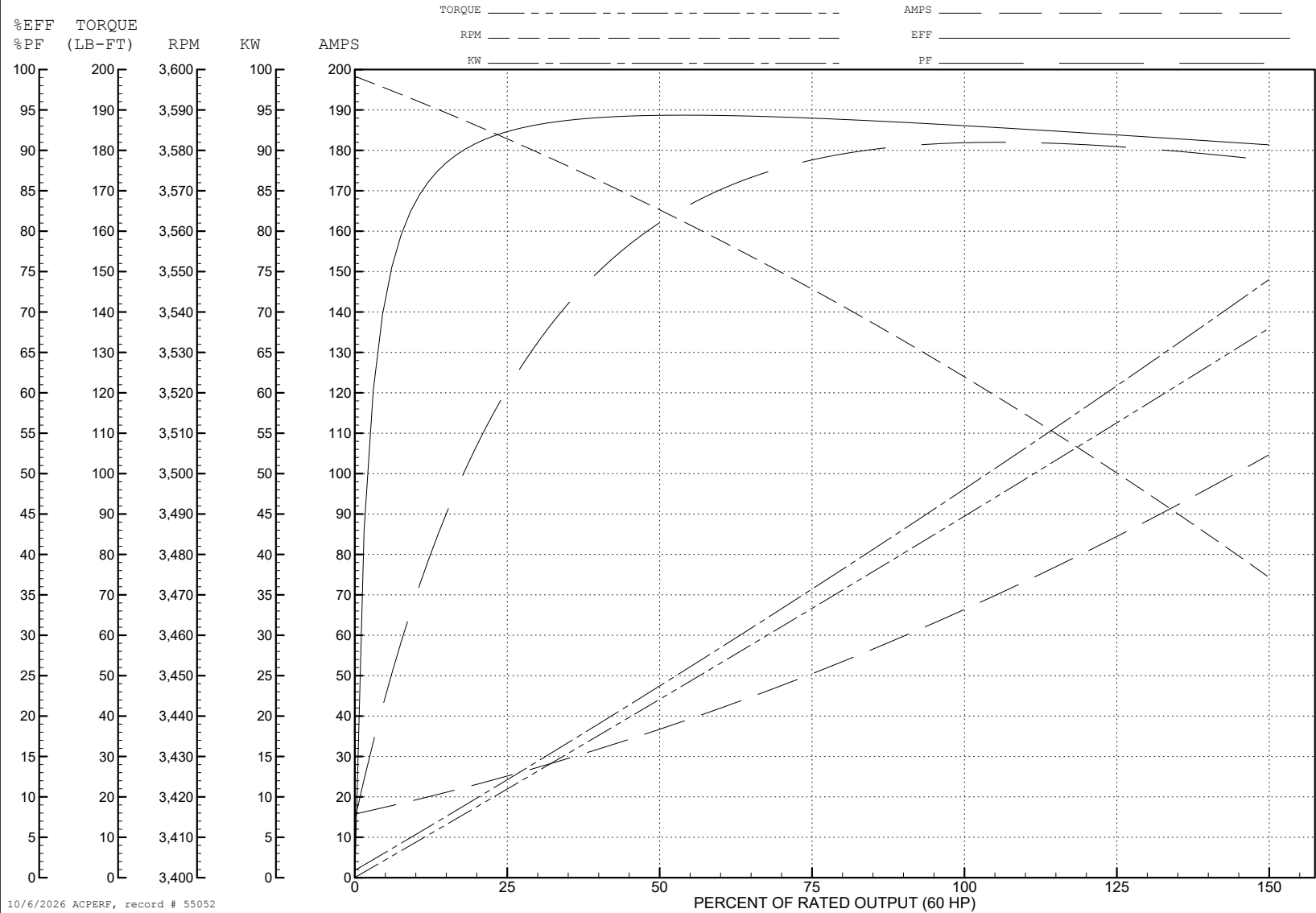
ABB Motors and Mechanical Inc.

WINDING # 40WGx318

Typical performance - not guaranteed values.

60 HP 3 PH 60 HZ 3523.9 RPM 460 V 4062M

TORQUES (LB-FT): PO=205 PU=115 LR=150 LRA=431



AC Induction Motor Performance Data

Record # 55053

Typical performance - not guaranteed values

Winding: 40WGX318-R001			Type: 4062M		Enclosure: OPSB		
Nameplate Data				380 V, 50 Hz: High Voltage Connection			
Rated Output (HP)		60//50		Full Load Torque		89.9 LB-FT	
Volts		230/460//190/380		Start Configuration		direct on line	
Full Load Amps		136/68//138/69		Breakdown Torque		198 LB-FT	
R.P.M.		3520//2920		Pull-up Torque		122 LB-FT	
Hz	60//50	Phase	3	Locked-rotor Torque		159 LB-FT	
NEMA Design Code		B	KVA Code	G	Starting Current		422 A
Service Factor (S.F.)		1.15		No-load Current		16.5 A	
NEMA Nom. Eff.		93	Power Factor	89	Line-line Res. @ 25°C		0.115 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		48°C	
S.F. Amps				Temp. Rise @ S.F. Load		61°C	
				Locked-rotor Power Factor		24.9	
				Rotor inertia		2.66 LB-FT2	

Load Characteristics 380 V, 50 Hz, 50 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	67	84	89	90	90	89	90
Efficiency	91	93.3	93.1	92.2	91.5	89.2	91.8
Speed	2982	2965	2946	2925	2902	2875	2911
Line amperes	23.7	36.3	51.4	68.6	86.8	107	79.5

ABB Motors and Mechanical Inc.

WINDING # 40WGx318

Typical performance - not guaranteed values.

50 HP 3 PH 50 HZ 2925 RPM 380 V 4062M

TORQUES (LB-FT): PO=198 PU=122 LR=159 LRA=422

