

ABB BALDOR RELIANCE III

Customer information packet

FPM2554T-4

125//100HP, 3540//2940RPM, 3PH, 60//50HZ, 40

Specifications

Enclosure	OPSB
Frame	404TS
Frame Material	Steel
Frequency	50.00 Hz 60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	100.000 HP @ 50 HZ 125.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3000 RPM @ 50 HZ
Voltage @ Frequency	380.0 V @ 50 HZ 460.0 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
Current @ Voltage	138.000 A @ 460.0 V 135.000 A @ 380.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.6 %
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	135.0 a

Part Detail

Revision	N
Type	AC
Mech. spec.	44E020
Base	
Status	PRD/A
Elec. spec.	44WGW358
Layout	44LYE020
Eff. date	03-11-2026
CD Diagram	CD1480
Poles	02
Leads	12#6
Proprietary	False
Created date	09-17-2015

Insulation Class	F
Inverter Code	Not Inverter
KVA Code	F
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	12 @ 6 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	4456M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	31.85 IN
Power Factor	90
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	2.125 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	2940 rpm 3540 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.	FPM2554T-4				CUST P/N					I.P.	23		
SPEC.	44E020W358H2				SER.NO.					FRAME	404TS		
HZ	60	HP	125		RPM	3540		HZ	50		HP	100	
												RPM	2940
VOLTS	460			CODE	F			VOLTS	380			CODE	G
AMPS	138			DES	B			AMPS	135			DES	B
EFF	93.6	SER.F.	1.15		PF	90		EFF	93		SER.F.	1.15	PF 90
RATING	40C AMB-CONT				DE BRG	6313				GREASE	POLYREX EM		
BLANK					ODE BRG	6312				MTR. WT.	632		
					CLASS	F		PH	3				
					ENCL	OPSB		CC	010A				
HTR-VOLTS		HTR-AMPS		HTR-WATTS									

AC Induction Motor Performance Data

Record # 52872

Typical performance - not guaranteed values

Winding: 44WGW358-R001			Type: 4454M	Enclosure: OPSB		
Nameplate Data			460 V, 60 Hz: Single Voltage Motor			
Rated Output (HP)	125//100		Full Load Torque	185 LB-FT		
Volts	460//380		Start Configuration	direct on line		
Full Load Amps	138//135		Breakdown Torque	594 LB-FT		
R.P.M.	3540//2940		Pull-up Torque	209 LB-FT		
Hz	60//50	Phase	3	Locked-rotor Torque	266 LB-FT	
NEMA Design Code	B		KVA Code	F	Starting Current	906 A
Service Factor (S.F.)	1.15		No-load Current	32.1 A		
NEMA Nom. Eff.	93.6	Power Factor	90	Line-line Res. @ 25°C	0.0694 Ω	
Rating - Duty	40C AMB-CONT		Temp. Rise @ Rated Load	53°C		
S.F. Amps			Temp. Rise @ S.F. Load	65°C		
			Locked-rotor Power Factor	24.4		
			Rotor inertia	7.32 LB-FT2		

Load Characteristics 460 V, 60 Hz, 125 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	68	85	89	91	90	89	90
Efficiency	90.3	93.5	94.1	93.6	93.4	92.1	93.5
Speed	3588	3575	3562	3548	3533	3516	3539
Line amperes	48.1	74.2	105	138	173	212	159

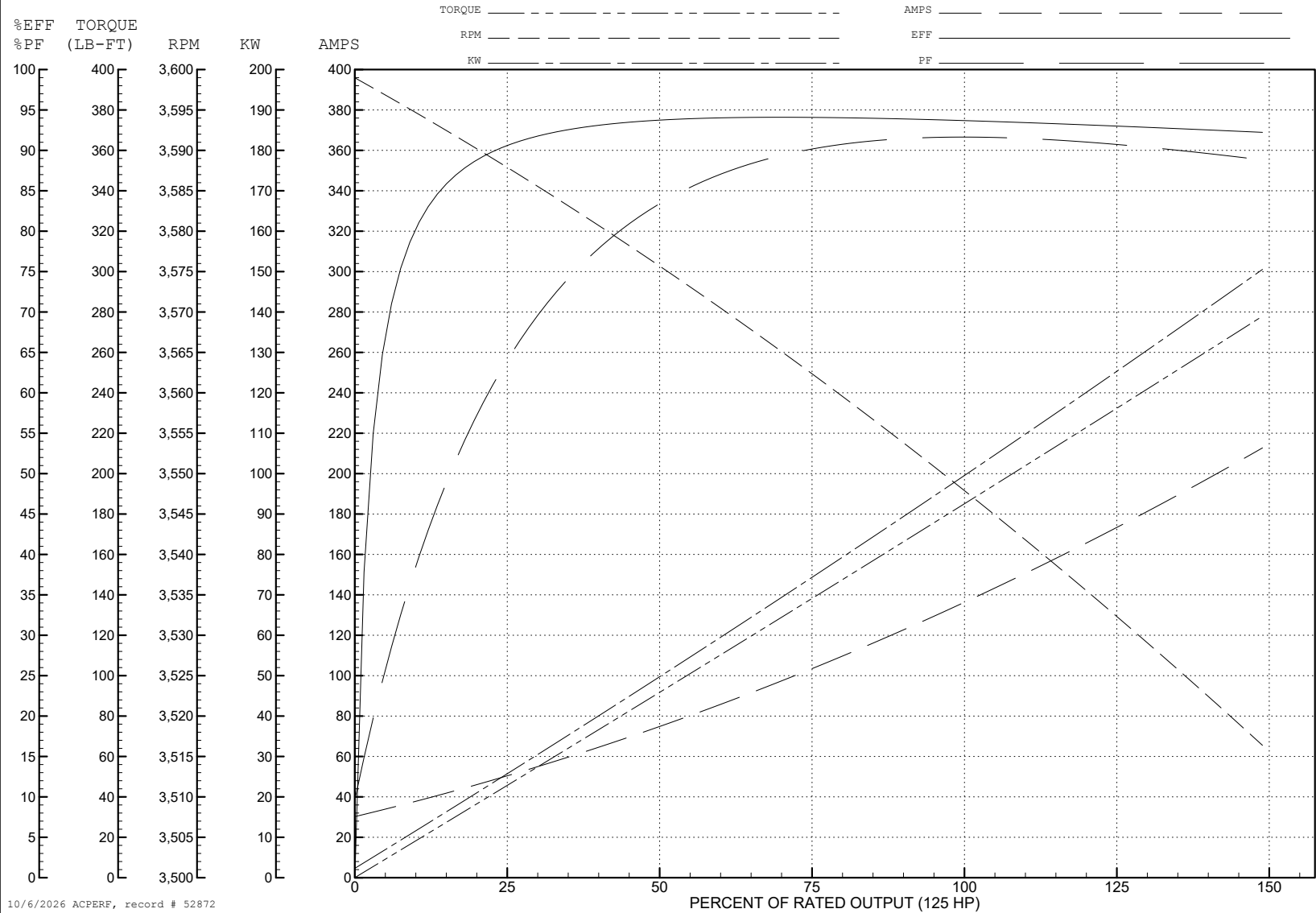
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WINDING # 44WG358

Typical performance - not guaranteed values.

125 HP 3 PH 60 HZ 3548 RPM 460 V 4454M

TORQUES (LB-FT): PO=594 PU=209 LR=266 LRA=906



AC Induction Motor Performance Data

Record # 52873

Typical performance - not guaranteed values

Winding: 44WGW358-R001				Type: 4456M		Enclosure: OPSB	
Nameplate Data				380 V, 50 Hz: Single Voltage Motor			
Rated Output (HP)		125//100		Full Load Torque		178 LB-FT	
Volts		460//380		Start Configuration		direct on line	
Full Load Amps		138//135		Breakdown Torque		572 LB-FT	
R.P.M.		3540//2940		Pull-up Torque		220 LB-FT	
Hz	60//50	Phase	3	Locked-rotor Torque		281 LB-FT	
NEMA Design Code		B	KVA Code	F	Starting Current		883 A
Service Factor (S.F.)		1.15		No-load Current		31.5 A	
NEMA Nom. Eff.		93.6	Power Factor	90	Line-line Res. @ 25°C		0.0694 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		50°C	
S.F. Amps				Temp. Rise @ S.F. Load		63°C	
				Locked-rotor Power Factor		27.6	
				Rotor inertia		7.32 LB-FT2	

Load Characteristics 380 V, 50 Hz, 100 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	68	85	89	91	91	90	91
Efficiency	91.1	93.7	93.8	93.3	92.9	91.5	93.1
Speed	2989	2976	2964	2951	2937	2920	2943
Line amperes	46.6	71.8	102	134	168	206	154

ABB Motors and Mechanical Inc.

WINDING # 44WG358

Typical performance - not guaranteed values.

100 HP 3 PH 50 HZ 2951 RPM 380 V 4456M

TORQUES (LB-FT): PO=572 PU=220 LR=281 LRA=883

