

ABB BALDOR RELIANCE III

Customer information packet

FPM2556T-4

150//125HP, 3540//2940RPM, 3PH, 60//50HZ, 40

Specifications

Enclosure	OPSB
Frame	405TS
Frame Material	Steel
Frequency	50.00 Hz 60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	125.000 HP @ 50 HZ 150.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3000 RPM @ 50 HZ
Voltage @ Frequency	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	165.000 A @ 460.0 V 168.000 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

Part Detail

Revision	S
Type	AC
Mech. spec.	44E020
Base	
Status	PRD/A
Elec. spec.	44WGW360
Layout	44LYE020
Eff. date	03-11-2026
CD Diagram	CD1480
Poles	02
Leads	12#2
Proprietary	False
Created date	09-15-2015

Heater Indicator	No Heater
High Voltage Full Load Amps	165.0 a
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 @ 2 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	4466M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	31.85 IN
Power Factor	92
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.	FPM2556T-4				CUST P/N					I.P.	23		
SPEC.	44E020W360H2				SER.NO.					FRAME	405TS		
HZ	60	HP	150		RPM	3540	HZ	50		HP	125		RPM 2940
VOLTS	460			CODE	F		VOLTS	380				CODE	F
AMPS	165			DES	B		AMPS	168				DES	B
EFF	93.6	SER.F.	1.15		PF	92		EFF	93		SER.F.	1.15	PF 92
RATING	40C AMB-CONT				DE BRG	6313				GREASE	POLYREX EM		
BLANK					ODE BRG	6312				MTR. WT.	815		
					CLASS	F		PH	3				
					ENCL	OPSB		CC	010A				
HTR-VOLTS		HTR-AMPS		HTR-WATTS									

AC Induction Motor Performance Data

Record # 55795

Typical performance - not guaranteed values

Winding: 44WGW360-R001			Type: 4466M	Enclosure: OPSB		
Nameplate Data			460 V, 60 Hz: Single Voltage Motor			
Rated Output (HP)	150//125		Full Load Torque	224 LB-FT		
Volts	460//380		Start Configuration	direct on line		
Full Load Amps	165//168		Breakdown Torque	909 LB-FT		
R.P.M.	3540//2940		Pull-up Torque	205 LB-FT		
Hz	60//50	Phase	3	Locked-rotor Torque	237.5 LB-FT	
NEMA Design Code	B		KVA Code	F	Starting Current	1023 A
Service Factor (S.F.)	1.15		No-load Current	30.5 A		
NEMA Nom. Eff.	93.6	Power Factor	92	Line-line Res. @ 25°C	0.0573 Ω	
Rating - Duty	40C AMB-CONT		Temp. Rise @ Rated Load	55°C		
S.F. Amps			Temp. Rise @ S.F. Load	68°C		
			Locked-rotor Power Factor	25.5		
			Rotor inertia	8.63 LB-FT2		

Load Characteristics 460 V, 60 Hz, 150 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	76	89	91	92	90	91	91
Efficiency	91.3	94.4	94.6	93.8	93.1	92.6	93.3
Speed	3588	3574	3561	3544	3525	3510	3533
Line amperes	51.4	85.8	124	165	210	249	192

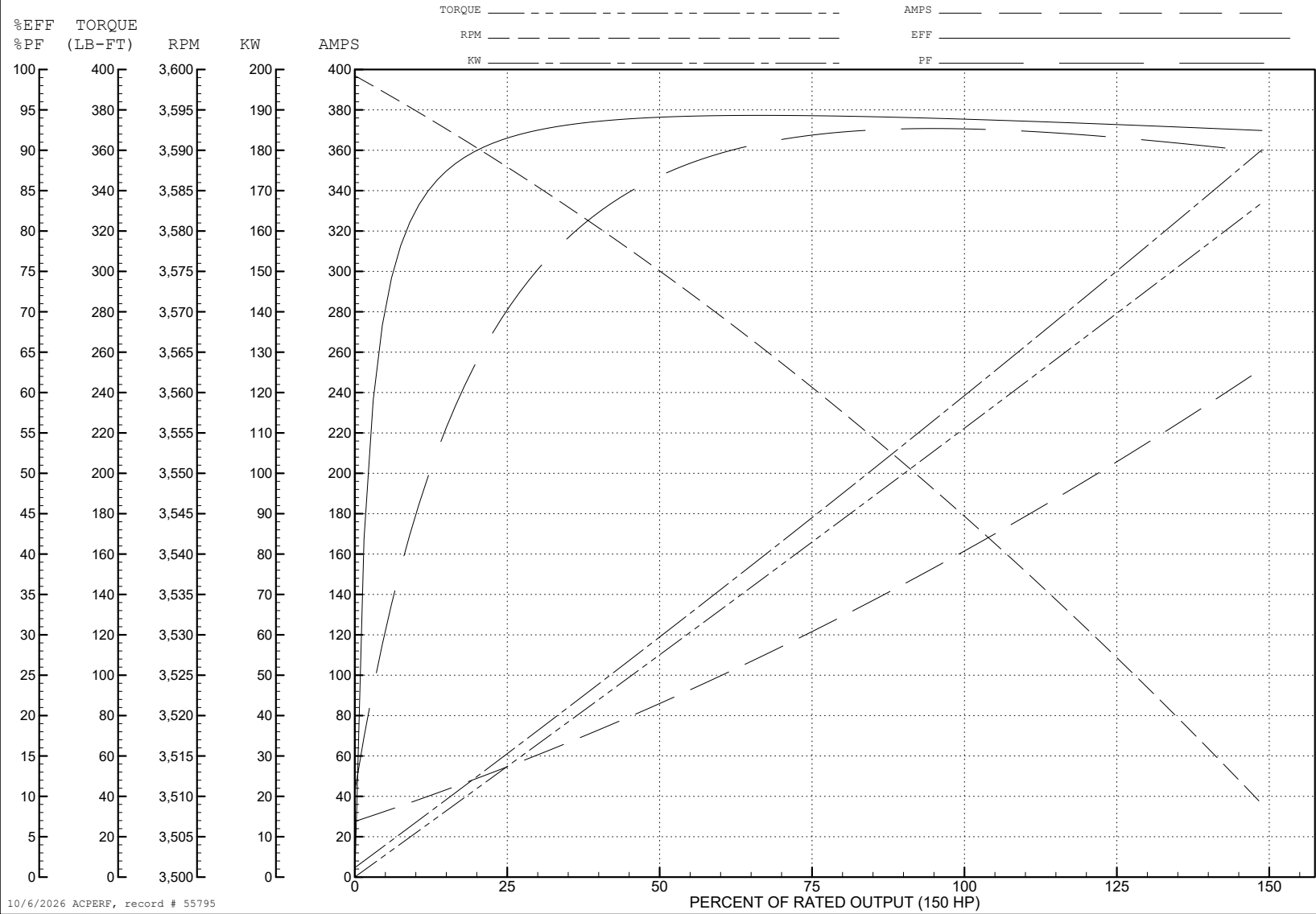
ABB Motors and Mechanical Inc.

WINDING # 44WG360

Typical performance - not guaranteed values.

150 HP 3 PH 60 HZ 3544 RPM 460 V 4466M

TORQUES (LB-FT): PO=909 PU=205 LR=237.5 LRA=1023



AC Induction Motor Performance Data

Record # 55796

Typical performance - not guaranteed values

Winding: 44WGW360-R001				Type: 4466M		Enclosure: OPSB	
Nameplate Data				380 V, 50 Hz: Single Voltage Motor			
Rated Output (HP)		150//125		Full Load Torque		225 LB-FT	
Volts		460//380		Start Configuration		direct on line	
Full Load Amps		165//168		Breakdown Torque		874 LB-FT	
R.P.M.		3540//2940		Pull-up Torque		215 LB-FT	
Hz	60//50	Phase	3	Locked-rotor Torque		249 LB-FT	
NEMA Design Code		B	KVA Code	F	Starting Current		996 A
Service Factor (S.F.)		1.15		No-load Current		30.1 A	
NEMA Nom. Eff.		93.6	Power Factor	92	Line-line Res. @ 25°C		0.0573 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		56°C	
S.F. Amps				Temp. Rise @ S.F. Load		71°C	
				Locked-rotor Power Factor		28.7	
				Rotor inertia		8.63 LB-FT2	

Load Characteristics 380 V, 50 Hz, 125 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	77	89	91	92	90	90	91
Efficiency	90.5	93.7	93.7	93	92.1	91.5	92.5
Speed	2988	2974	2962	2944	2927	2912	2934
Line amperes	51.7	86.7	126	168	214	255	196

ABB Motors and Mechanical Inc.

WINDING # 44WG360

Typical performance - not guaranteed values.

125 HP 3 PH 50 HZ 2944 RPM 380 V 4466M

TORQUES (LB-FT): PO=874 PU=215 LR=249 LRA=996

