



Customer information packet

FPM2514T

20//15HP, 3460//2900RPM, 3PH, 60//50HZ, 254T

Class - None

Division - Not Applicable

Specifications

Enclosure	OPSB
Frame	254T
Frame Material	Steel
Frequency	50.00 Hz 60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	15.000 HP @ 50 HZ 20.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	380.0 V @ 50 HZ 230.0 V @ 60 HZ 190.0 V @ 50 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA EEV CSA UL UR
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	42.000 A @ 190.0 V 46.000 A @ 230.0 V 23.000 A @ 460.0 V 21.000 A @ 380.0 V
Design Code	B
Drip Cover	No Drip Cover

Part detail

Revision	K
Type	AC
Mech. spec.	37N756
Base	
Status	PRD/A
Elec. spec.	37WGR893
Layout	37LYN756
Eff. date	06-08-2023
CD Diagram	CD0104
Poles	02
Leads	12#12
Proprietary	False
Created date	09-23-2015

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	21.0 a
Insulation Class	F
Inverter Code	Inverter Ready
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 @ 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	2860 rpm
	3450 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.	FPM2514T				CUST P/N				I.P.				23		
SPEC.	37N756R893H2				SER.NO.				FRAME				254T		
HZ	60	HP	20		RPM	3450		HZ	50		HP	15		RPM	2860
VOLTS	230/460			CODE	G			VOLTS	190/380				CODE	G	
AMPS	46/23			DES	B			AMPS	42/21				DES	B	
EFF	90.2	SER.F.	1.15		PF	90		EFF	89.5		SER.F.	1.15		PF	90
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	HTR-AMPS		HTR-WATTS												

AC Induction Motor Performance Data

Record # 54579

Typical performance - not guaranteed values

Winding: 37WGR893-R001			Type: 3742M		Enclosure: OPSB			
Nameplate Data				460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		20//15		Full Load Torque		30.3 LB-FT		
Volts		230/460//190/380		Start Configuration		direct on line		
Full Load Amps		46/23//42/21		Breakdown Torque		89.4 LB-FT		
R.P.M.		3450//2860		Pull-up Torque		45.9 LB-FT		
Hz		60//50	Phase	3	Locked-rotor Torque		51.7 LB-FT	
NEMA Design Code		B		KVA Code	G	Starting Current		137 A
Service Factor (S.F.)		1.15		No-load Current		5.92 A		
NEMA Nom. Eff.		90.2	Power Factor	90	Line-line Res. @ 25°C		0.53993 Ω	
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		67°C		
S.F. Amps				Temp. Rise @ S.F. Load		89°C		

Load Characteristics 460 V, 60 Hz, 20 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	65	83	88	90	91	90	91
Efficiency	91.9	93	92	90.4	88.2	85.7	89.1
Speed	3565	3528.9	3490.7	3447.9	3395.3	3337.8	3416
Line amperes	8.05	12.3	17.3	22.9	29.3	36.4	26.7

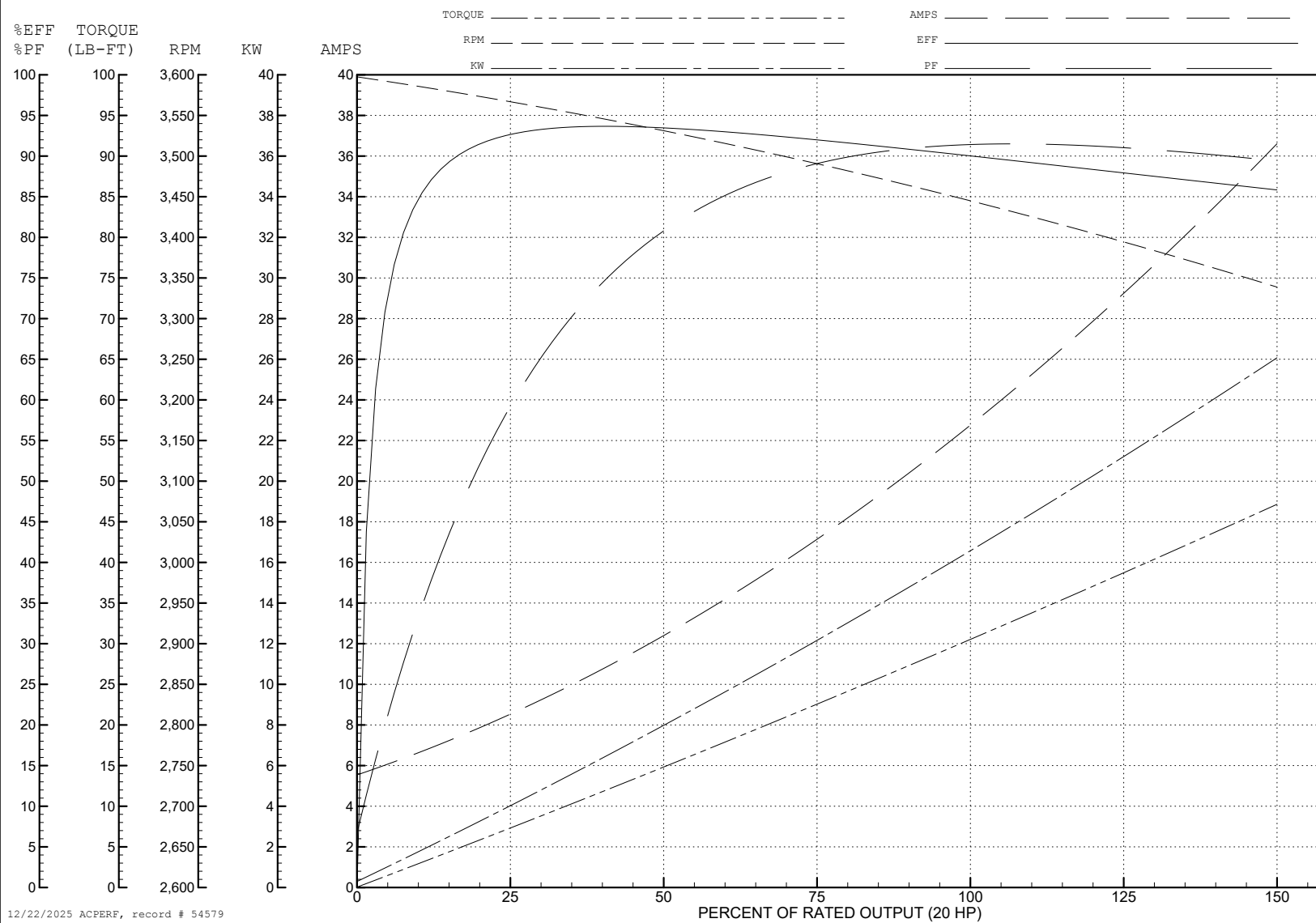
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WINDING # 37WGR893

Typical performance - not guaranteed values.

20 HP 3 PH 60 HZ 3447.9 RPM 460 V 3742M

TORQUES (LB-FT): PO=89.4 PU=45.9 LR=51.7 LRA=137



AC Induction Motor Performance Data

Record # 54580

Typical performance - not guaranteed values

Winding: 37WGR893-R001			Type: 3742M		Enclosure: OPSB			
Nameplate Data				380 V, 50 Hz: High Voltage Connection				
Rated Output (HP)		20//15		Full Load Torque		27.5 LB-FT		
Volts		230/460//190/380		Start Configuration		direct on line		
Full Load Amps		46/23//42/21		Breakdown Torque		86.8 LB-FT		
R.P.M.		3450//2860		Pull-up Torque		43.4 LB-FT		
Hz		60//50	Phase	3	Locked-rotor Torque		53.1 LB-FT	
NEMA Design Code		B		KVA Code	G	Starting Current		138 A
Service Factor (S.F.)		1.15		No-load Current		5.84 A		
NEMA Nom. Eff.		90.2	Power Factor	90	Line-line Res. @ 25°C		0.53993 Ω	
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		60°C		
S.F. Amps				Temp. Rise @ S.F. Load		79°C		

Load Characteristics 380 V, 50 Hz, 15 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	63	82	88	90	91	90	91
Efficiency	91.7	92.8	91.8	90.1	88	85.5	88.8
Speed	2969.1	2938.6	2904.4	2866.5	2823	2775.5	2840
Line amperes	7.67	11.4	16	20.9	26.7	32.9	24.4

ABB Motors and Mechanical Inc.

WINDING # 37WGR893

Typical performance - not guaranteed values.

15 HP 3 PH 50 HZ 2866.5 RPM 380 V 3742M

TORQUES (LB-FT): PO=86.8 PU=43.4 LR=53.1 LRA=138

