



Customer information packet

M1708T

5/2.5HP, 1740/865RPM, 3PH, 60HZ, 213T, 3742M

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	213T
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	5.000 HP @ 60 HZ 2.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	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	6.300 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	5.2 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	K

Part detail

Revision	C
Type	AC
Mech. spec.	37T397
Base	
Status	PRD/A
Elec. spec.	37WGZ656
Layout	37LYT397
Eff. date	05-14-2024
CD Diagram	CD0011
Poles	04/08
Leads	6#14
Proprietary	False
Created date	12-11-2020

Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	6 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3742M
Mounting Arrangement	F1
Number of Poles	4
	8
Overall Length	19.01 IN
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1740 rpm
	865 rpm
Speed Code	2S-1W-CT
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

NP1256L									
CAT.NO.	M1708T								
SPEC.	37T397Z656G1								
HP	5/2.5								
VOLTS	460								
AMP	6.3/5.2								
RPM	1740/865								
FRAME	213T		HZ	60			PH	3	
SER.F.	1.15	CODE	K	DES	B	CLASS	F		
NEMA-NOM-EFF		PF							
RATING	40C AMB-CONT								
CC									
DE	6307		ODE	6206					
ENCL	TEFC	SN							
	SFA 7.2/5.5								

Accessories

Part number	Description	Multiplier
37-3301	C FACE KIT	P1

AC Induction Motor Performance Data

Record # 85795

Preliminary Data Sheet

Winding: 37WGZ656-R001			Type: 3742M		Enclosure: TEFC			
Nameplate Data				460 V, 60 Hz: High Speed Connection				
Rated Output (HP)		5/2.5		Full Load Torque		14.96 LB-FT		
Volts		460		Start Configuration		direct on line		
Full Load Amps		6.3/5.2		Breakdown Torque		64.46 LB-FT		
R.P.M.		1740/865		Pull-up Torque		18.85 LB-FT		
Hz		60	Phase	3	Locked-rotor Torque		43.06 LB-FT	
NEMA Design Code		B	KVA Code		K	Starting Current		51.88 A
Service Factor (S.F.)		1.15		No-load Current		2.68 A		
NEMA Nom. Eff.		0	Power Factor		0	Line-line Res. @ 25°C		3.04 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		53°C		
S.F. Amps		7.2/5.5		Temp. Rise @ S.F. Load		66°C		
				Locked-rotor Power Factor		57.3		
				Rotor inertia		1.03 lb-ft²		

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	48	71	81	86	88	90	87
Efficiency	82	86.3	86.2	85.9	84.8	82.3	85.2
Speed	1787	1773	1759	1743	1726	1705	1733
Line amperes	3	3.85	4.99	6.32	7.78	9.5	7.2

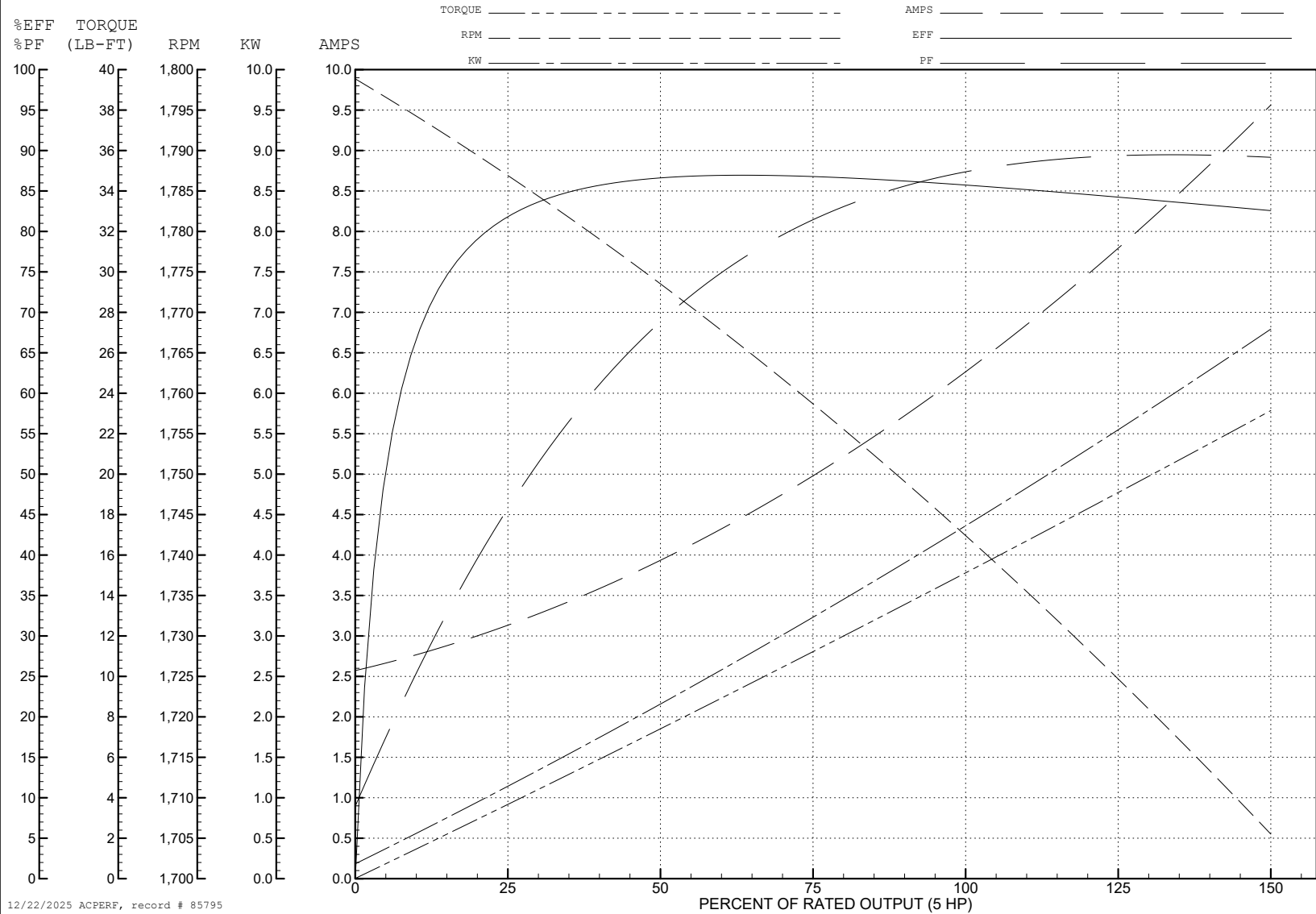
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WINDING # 37WGZ656

Typical performance - not guaranteed values.

5 HP 3 PH 60 HZ 1743 RPM 460 V 3742M

TORQUES (LB-FT): PO=64.46 PU=18.85 LR=43.06 LRA=51.88



12/22/2025 ACPERF, record # 85795

AC Induction Motor Performance Data

Record # 85796

Preliminary Data Sheet

Winding: 37WGZ656-R001			Type: 3742M		Enclosure: TEFC		
Nameplate Data				460 V, 60 Hz: Low Speed Connection			
Rated Output (HP)		5/2.5		Full Load Torque		15 LB-FT	
Volts		460		Start Configuration		direct on line	
Full Load Amps		6.3/5.2		Breakdown Torque		62.8 LB-FT	
R.P.M.		1740/865		Pull-up Torque		24.2 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		37.1 LB-FT	
NEMA Design Code		B	KVA Code	K	Starting Current		27 A
Service Factor (S.F.)		1.15		No-load Current		4.96 A	
NEMA Nom. Eff.		0	Power Factor	0	Line-line Res. @ 25°C		4.14 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		55°C	
S.F. Amps		7.2/5.5		Temp. Rise @ S.F. Load		62°C	
				Locked-rotor Power Factor		57.3	
				Rotor inertia		1.03 lb-ft²	

Load Characteristics 460 V, 60 Hz, 2.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	18	29	40	49	56	62	53
Efficiency	66	77.8	82.2	83.9	84.5	84.4	84.3
Speed	894.1	888.6	882.8	876.7	870.3	863.4	873
Line amperes	5	5.14	5.39	5.73	6.17	6.7	5.99

ABB Motors and Mechanical Inc.

WINDING # 37WGZ656

Typical performance - not guaranteed values.

2.5 HP 3 PH 60 HZ 876.7 RPM 460 V 3742M

TORQUES (LB-FT): PO=62.8 PU=24.2 LR=37.1 LRA=27

