



Customer information packet

EBM3714TY

10HP, 1770RPM, 3PH, 60HZ, 215T, 3752M, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	215T
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	10.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CURUSEEV NEMA PREMIUM
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	12.500 A @ 460.0 V 25.000 A @ 230.0 V 27.000 A @ 208.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	12.5 a

Part detail

Revision	B
Type	AC
Mech. spec.	37A021
Base	
Status	PRD/A
Elec. spec.	37WGL865
Layout	37LYA021
Eff. date	05-01-2024
CD Diagram	CD0005
Poles	04
Leads	9#14
Proprietary	False
Created date	02-01-2021

Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3752M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	29.01 IN
Power Factor	85
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	1.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1770 rpm
Speed Code	Single Speed
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

NP1259L									
CAT.NO.	EBM3714TY								
SPEC.	37A021L865G2								
HP	10								
VOLTS	230/460								
AMP	25/12.5								
RPM	1770								
FRAME	215T		HZ	60			PH	3	
SER.F.	1.15	CODE	K	DES	A	CL	F		
NEMA-NOM-EFF	91.7	PF	85						
RATING	40C AMB-CONT								
CC	010A								
DE	6307		ODE	6306					
ENCL	TEFC	SN							

AC Induction Motor Performance Data

Record # 85459

Preliminary Data Sheet

Winding: 37WGL865-R001				Type: 3752M		Enclosure: TEFC					
Nameplate Data				460 V, 60 Hz: High Voltage Connection							
Rated Output (HP)		10		Full Load Torque		29.7 LB-FT					
Volts		230/460		Start Configuration		direct on line					
Full Load Amps		25/12.5		Breakdown Torque		102 LB-FT					
R.P.M.		1770		Pull-up Torque		46.9 LB-FT					
Hz		60 Phase		3		Locked-rotor Torque		62.2 LB-FT			
NEMA Design Code		A		KVA Code		K		Starting Current		101 A	
Service Factor (S.F.)		1.15		No-load Current		5.33 A					
NEMA Nom. Eff.		91.7		Power Factor		85		Line-line Res. @ 25°C		0.957 Ω	
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		69°C					
S.F. Amps				Temp. Rise @ S.F. Load		86°C					
				Locked-rotor Power Factor		35.8					
				Rotor inertia		1.28 LB-FT2					

Load Characteristics 460 V, 60 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	44	66	77	81	84	85	84
Efficiency	88.4	91.8	92.4	92.1	91	89.9	91.4
Speed	1793	1786	1778	1770	1761	1751	1762
Line amperes	6.05	7.73	9.9	12.5	15.3	18.3	14.1

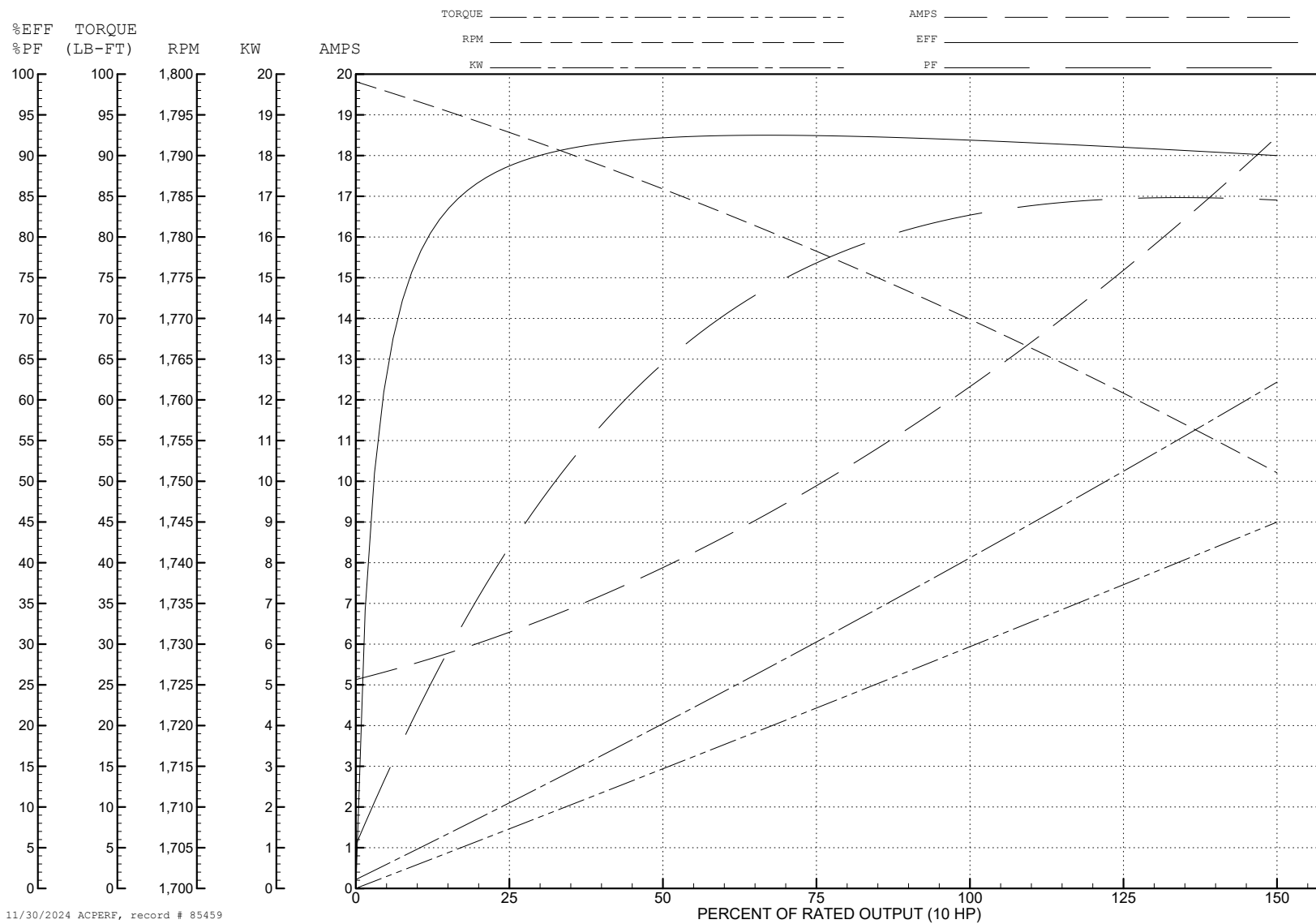
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WINDING # 37WGL865

Typical performance - not guaranteed values.

10 HP 3 PH 60 HZ 1770 RPM 460 V 3752M

TORQUES (LB-FT): PO=102 PU=46.9 LR=62.2 LRA=101



11/30/2024 ACPERF, record # 85459

AC Induction Motor Performance Data

Record # 103095

Typical performance - not guaranteed values

Winding: 37WGL865-R001			Type: 3752M		Enclosure: TEFC			
Nameplate Data				415 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		10		Full Load Torque		29.83 LB-FT		
Volts		230/460		Start Configuration		direct on line		
Full Load Amps		25/12.5		Breakdown Torque		82.4 LB-FT		
R.P.M.		1770		Pull-up Torque		37.5 LB-FT		
Hz		60	Phase	3	Locked-rotor Torque		49.7 LB-FT	
NEMA Design Code		A	KVA Code		K	Starting Current		90.2 A
Service Factor (S.F.)		1.15		No-load Current		4.58 A		
NEMA Nom. Eff.		91.7	Power Factor		85	Line-line Res. @ 25°C		0.957 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		73°C		
S.F. Amps				Temp. Rise @ S.F. Load		93°C		
				Locked-rotor Power Factor		35.8		
				Rotor inertia		1.28 lb-ft²		

Load Characteristics 415 V, 60 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	52	73	81	84	86	86	85
Efficiency	89.7	92.3	92.4	91.8	90.2	88.7	90.8
Speed	1792	1783	1774	1764	1753	1740	1757
Line amperes	5.53	7.67	10.3	13.41	16.72	20.39	15.4

ABB Motors and Mechanical Inc.

WINDING # 37WGL865

Typical performance - not guaranteed values.

10 HP 3 PH 60 HZ 1770 RPM 415 V 3752M

TORQUES (LB-FT): PO=82.4 PU=37.5 LR=49.7 LRA=90.2

