



Customer information packet

CEDM3714T

10HP, 1770RPM, 3PH, 60HZ, 215TC, 3752M, TEFC, F

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	215TC
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	460.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	CCSA US CSA EEV NEMA PREMIUM NEMA_PREMIUM 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
Constant Torque Speed Range	6
Current @ Voltage	27.000 A @ 208.0 V 25.000 A @ 230.0 V 12.500 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated

Part detail

Revision	A
Type	AC
Mech. spec.	37N854
Base	
Status	PRD/A
Elec. spec.	37WGL865
Layout	37LYN854
Eff. date	06-24-2021
CD Diagram	CD0005
Poles	04
Leads	9#14
Proprietary	False
Created date	01-29-2021

Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	12.5 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
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	21.26 IN
Power Factor	85
Product Family	Dirty Duty Plus
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
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

NP3504									
CAT NO	CEDM3714T								
SPEC.	37N854L865G1				ENCL	TEFC			
FRAME	215TC	HP	10						
VOLTS	230/460								
FLA	25/12.5			I.P.	56				
RPM	1770	RPM MAX			2700				
HZ	60	PH	3	CLASS		F			
SER.F.	1.15	DES	A	CC	010A				
NEMA-NOM-EFF	91.7								
RATING	40C AMB-CONT								
DE BRG	6307	ODE BRG			6206				
GREASE	POLYREX EM								
C HP FR	60	C HP TO		90					
CT HZ FROM	6	CT HZ TO			60	VT HZ FROM	6	VT HZ TO	60
SER.NO									
	50C AT 1.0 SF								

AC Induction Motor Performance Data

Record # 86466

Preliminary Data Sheet

Winding: 37WGL865-R005			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		25.0/12.5	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		0.982 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		69°C
S.F. Amps		28.2/14.6	Temp. Rise @ S.F. Load		92°C		
			Locked-rotor Power Factor		42		
			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	82	84	85	84
Efficiency	88.7	92.3	92.7	92.2	91.3	90	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

ABB Motors and Mechanical Inc.

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





