

ABB BALDOR RELIANCE III

Customer information packet

CEDM3711T

10HP, 3490RPM, 3PH, 60HZ, 215TC, 3728M, 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	3600 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	24.900 A @ 208.0 V 23.200 A @ 230.0 V 11.600 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	90.2 %
Electrically Isolated Bearing	Not Electrically Isolated

Part Detail

Revision	H
Type	AC
Mech. spec.	37N854
Base	
Status	PRD/A
Elec. spec.	37WGS864
Layout	37LYN854
Eff. date	06-24-2021
CD Diagram	CD0005
Poles	02
Leads	9#14
Proprietary	False
Created date	04-14-2016

Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	11.6 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	5400 rpm
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3730M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	18.63 IN
Power Factor	88
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 Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3490 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	CEDM3711T										
SPEC.	37N854S864G1					ENCL	TEFC				
FRAME	215TC	HP		10							
VOLTS	230/460										
FLA	23.2/11.6				I.P.		56				
RPM	3490	RPM MAX				5400					
HZ	60	PH	3	CLASS		F					
SER.F.	1.15	DES	B	CC		010A					
NEMA-NOM-EFF	90.2										
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 # 55760

Typical performance - not guaranteed values

Winding: 37WGS864-R033			Type: 3730M		Enclosure: TEFC	
Nameplate Data			460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		10	Full Load Torque		14.94 LB-FT	
Volts		230/460	Start Configuration		direct on line	
Full Load Amps		23.2/11.6	Breakdown Torque		46.1 LB-FT	
R.P.M.		3490	Pull-up Torque		19.3 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		23.7 LB-FT
NEMA Design Code		B	KVA Code	G	Starting Current	
Service Factor (S.F.)		1.15	No-load Current		3.66 A	
NEMA Nom. Eff.		90.2	Power Factor	88	Line-line Res. @ 25°C	
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load	
S.F. Amps				Temp. Rise @ S.F. Load		97°C
				Locked-rotor Power Factor		33.7
				Rotor inertia		0.273 LB-FT2

Load Characteristics 460 V, 60 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	57	78	85	88	90	89	88
Efficiency	88.6	91.7	91.6	90.6	89.1	87.3	90
Speed	3573	3548	3520	3489	3455	3417	3464
Line amperes	4.56	6.49	8.9	11.6	14.6	17.9	13.5

ABB Motors and Mechanical Inc.

WINDING # 37WGS864

Typical performance - not guaranteed values.

10 HP 3 PH 60 HZ 3490 RPM 460 V 3730M

TORQUES (LB-FT) : PO=46.1 PU=19.3 LR=23.7 LRA=77.3





