

ABB BALDOR RELIANCE III

Customer information packet

EM3312T-BG

10HP, 3475RPM, 3PH, 60HZ, 213T, 3728M, OPSB, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	OPSB
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	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	CSA CSA EEV 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	24.000 A @ 230.0 V 25.600 A @ 208.0 V 12.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	Q
Type	AC
Mech. spec.	37N346
Base	
Status	PRD/A
Elec. spec.	37WGS633
Layout	37LYN346
Eff. date	06-11-2024
CD Diagram	CD0005
Poles	02
Leads	9#14
Proprietary	False
Created date	10-28-2013

Heater Indicator	No Heater
High Voltage Full Load Amps	12.0 a
Insulation Class	H
Inverter Code	Not Inverter
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3728M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	16.32 IN
Power Factor	86
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 Extension Location	Pulley End
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3475 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

NP3553L									
CAT.NO.	EM3312T-BG								
SPEC	37N346S633G1								
HP	10								
VOLTS	230/460								
AMPS	24/12								
RPM	3475								
FRAME	213T		HZ	60			PH	3	
SF	1.15	CODE	G	DES	B	CLASS		H	
NEMA NOM. EFF	89.5	PF	86						
RATING	40C AMB-CONT								
CC	010A								
ENCL	OPSB	SER							
DE	6307		ODE	6206					
VPWM INVERTER READY									
CT30-60(2:1) VT3-60(20:1)									

AC Induction Motor Performance Data

Record # 53395

Typical performance - not guaranteed values

Winding: 37WGS633-R010			Type: 3728M		Enclosure: OPSB		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		10	Full Load Torque		15 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		24/12	Breakdown Torque		51.1 LB-FT		
R.P.M.		3475	Pull-up Torque		25.6 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		30 LB-FT	
NEMA Design Code		B	KVA Code	G	Starting Current		79 A
Service Factor (S.F.)		1.15	No-load Current		4.54 A		
NEMA Nom. Eff.		89.5	Power Factor	86	Line-line Res. @ 25°C		0.98748 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		29°C
S.F. Amps					Temp. Rise @ S.F. Load		35°C
					Locked-rotor Power Factor		35
					Rotor inertia		0.255 LB-FT2

Load Characteristics 460 V, 60 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	52	74	82	86	88	88	87
Efficiency	84.2	89.7	90.6	90.2	89.3	87.9	89.7
Speed	3578.4	3552.7	3525.5	3493.1	3458.3	3422.6	3472
Line amperes	5.31	7.03	9.39	12	14.8	18	13.7

ABB Motors and Mechanical Inc.

WINDING # 37WGS633

Typical performance - not guaranteed values.

10 HP 3 PH 60 HZ 3475 RPM 460 V 3728M

TORQUES (LB-FT) : PO=51.1 PU=25.6 LR=30 LRA=79





