

ABB BALDOR RELIANCE III

Customer information packet

CEM3313T

10HP, 1770RPM, 3PH, 60HZ, 215TC, 3742M, OPSB, F

Class - None

Division - Not Applicable

Specifications

Enclosure	OPSB
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	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	NEMA PREMIUM (OLD LOGO) CURUSEEV NEMA PREMIUM
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	26.000 A @ 208.0 V 25.000 A @ 230.0 V 12.500 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	W
Type	AC
Mech. spec.	37B102
Base	
Status	PRD/A
Elec. spec.	37WGT853
Layout	37LYB102
Eff. date	06-24-2025
CD Diagram	CD0005
Poles	04
Leads	9#14
Proprietary	False
Created date	07-30-2010

Heater Indicator	No Heater
High Voltage Full Load Amps	12.5 a
Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	NONE
KVA Code	H
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	3742M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	18.19 IN
Power Factor	82
Product Family	General Purpose
Pulley End Bearing Type	Ball
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	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

NP3553LUA									
CAT.NO.	CEM3313T								
SPEC.	37B102T853G1								
HP	10								
VOLTS	230/460								
AMPS	25/12.5								
RPM	1770								
FRAME	215TC		HZ	60			PH	3	
SF	1.15		CODE	H	DES	B	CLASS	F	
NEMA NOM. EFF	91.7		PF	82					
RATING	40C AMB-CONT								
CC	010A								
ENCL	OPSB		SN						
DE	6307			ODE	6206				
VPWM INVERTER READY		SFA 27.72/13.86							
CT30-60(2:1) VT3-60(20:1)									
USABLE AT	50HZ 7.5HP 190/380V 26.8/14.4A								SF1.0

AC Induction Motor Performance Data

Record # 53404

Typical performance - not guaranteed values

Winding: 37WGT853-R026			Type: 3742M		Enclosure: OPSB			
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		87.58 LB-FT		
R.P.M.		1770		Pull-up Torque		44.18 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		51.57 LB-FT		
NEMA Design Code		B	KVA Code	H	Starting Current		86.72 A	
Service Factor (S.F.)		1.15		No-load Current		4.91 A		
NEMA Nom. Eff.		91.7	Power Factor	82	Line-line Res. @ 25°C		1.18 Ω	
Rating - Duty		40C		AMB-CONT		Temp. Rise @ Rated Load		34°C
S.F. Amps						Temp. Rise @ S.F. Load		43°C
						Locked-rotor Power Factor		37.9
						Rotor inertia		1.03 LB-FT2

Load Characteristics 460 V, 60 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	48	70	80	84	86	86	83
Efficiency	87.7	91.8	92.2	91.7	90.8	89.5	91.4
Speed	1793	1785	1777	1769	1759	1749	1763
Line amperes	5.6	7.31	9.53	12.15	15	18.24	14.2

ABB Motors and Mechanical Inc.

WINDING # 37WGT853

Typical performance - not guaranteed values.

10 HP 3 PH 60 HZ 1770 RPM 460 V 3742M

TORQUES (LB-FT) : PO=87.58 PU=44.18 LR=51.57 LRA=86.72



