

ABB BALDOR RELIANCE III

Customer information packet

HBEM3710T

40M 4P TEFC HOR 213T

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
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	7.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
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	10.100 A @ 460.0 V 20.200 A @ 230.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Electrically Isolated Bearings
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	10.1 a
Insulation Class	H
Inverter Code	Inverter Duty
KVA Code	L

Part Detail

Revision	A
Type	AC
Mech. spec.	37T556
Base	
Status	PRD/A
Elec. spec.	37WGV001
Layout	37LYT556
Eff. date	07-28-2026
CD Diagram	CD0005
Poles	04
Leads	9#14
Proprietary	False
Created date	05-11-2026

Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3740M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	19.02 IN
Power Factor	75
Product Family	General Purpose
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1775 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

AC Induction Motor Performance Data

Record # 115380

Typical performance - not guaranteed values

Winding: 37WGV001-R001			Type: 3740M		Enclosure: TEFC		
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		7.5		Full Load Torque		22.26 LB-FT	
Volts		208-230/460		Start Configuration		direct on line	
Full Load Amps		20.8-20.6/10.3		Breakdown Torque		90.3 LB-FT	
R.P.M.		1775		Pull-up Torque		45.7 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		58.3 LB-FT	
NEMA Design Code		A	KVA Code	L	Starting Current		90.4 A
Service Factor (S.F.)		1.25		No-load Current		5.7 A	
NEMA Nom. Eff.		91.7	Power Factor	75	Line-line Res. @ 25°C		1.16 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		60°C	
S.F. Amps		25.6-24.6/12.3		Temp. Rise @ S.F. Load		78°C	
				Locked-rotor Power Factor		37.8	
				Rotor inertia		0.984 lb-ft²	

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	34	54	67	75	78	81	78
Efficiency	85.5	90.6	91.8	91.8	91.2	90.3	91.2
Speed	1793	1787	1780	1773	1766	1757	1766
Line amperes	6.14	7.16	8.55	10.28	12.27	14.39	12.3

ABB Motors and Mechanical Inc.

WINDING # 37WGV001

Typical performance - not guaranteed values.

7.5 HP 3 PH 60 HZ 1775 RPM 460 V 3740M

TORQUES (LB-FT): PO=90.3 PU=45.7 LR=58.3 LRA=90.4





