

ABB BALDOR RELIANCE III

Customer information packet

JMFSWDM3711T-E

10HP, 3500RPM, 3PH, 60HZ, 215JM, 3744M, TEFC, F

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	215JM
Frame Material	Stainless 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	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA CSA EEV 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
Current @ Voltage	23.000 A @ 208.0 V 21.200 A @ 230.0 V 10.600 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
Feedback Device	NO FEEDBACK
Front Face Code	Standard

Part Detail

Revision	T
Type	AC
Mech. spec.	37Q257
Base	
Status	PRD/A
Elec. spec.	37WGS137
Layout	37LYQ257
Eff. date	07-06-2026
CD Diagram	CD0005
Poles	02
Leads	9#14
Proprietary	False
Created date	10-13-2017

Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	10.6 a
Insulation Class	H
Inverter Code	Inverter Ready
KVA Code	L
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	3744M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	21.81 IN
Power Factor	94
Product Family	WD All SS Encapsulated
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3500 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

NP4427AAA01																
CAT #	JMFSWDM3711T-E					WT	189		LBS							
SPEC	37Q257S137G1					ENCL	TEFC									
SER #						CC	010A		IP	69						
HP	10		MAG CUR			7/3.5										
VOLTS	230/460					NEMA NOM. EFF					91					
AMPS	21.2/10.6					PF		94								
RATING	40C AMB-CONT															
RPM	3500					MAX RPM			5400							
FRAME	215JM		HZ	60		CODE	L		CLASS	H						
SER.F.	1.15	SF AMP	26/13				PH		3	DES	A					
DE	6309			ODE		6307										
LUBRICATION	POLYREX EM															
ID LOGO	INVERTER TYPE				VPWM		CHP		60		TO		90		1.5:1	
ID LOGO	WK2	0.4	CT	15	TO		60		4:1							
ID LOGO	SL HZ	1.7	VT	6	TO		60		10:1							
								QR								
YR																

AC Induction Motor Performance Data

Record # 57389

Typical performance - not guaranteed values

Winding: 37WGS137-R011			Type: 3744M		Enclosure: TEFC		
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		21.2/10.6	Breakdown Torque		89.4 LB-FT		
R.P.M.		3500	Pull-up Torque		39 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		46.5 LB-FT	
NEMA Design Code		A	KVA Code	L	Starting Current		124 A
Service Factor (S.F.)		1.15		No-load Current		4.28 A	
NEMA Nom. Eff.		91	Power Factor	94	Line-line Res. @ 25°C		0.659 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		67°C	
S.F. Amps		26/13		Temp. Rise @ S.F. Load		82°C	
				Locked-rotor Power Factor		31.5	
				Rotor inertia		0.402 lb-ft²	

Load Characteristics 460 V, 60 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	56	77	86	91	91	92	91
Efficiency	81.8	88.7	90.2	91	90.1	89.7	90.5
Speed	3579	3557	3535	3510	3486	3459	3496
Line amperes	4.99	6.82	8.93	11.3	14.2	17	13

ABB Motors and Mechanical Inc.

WINDING # 37WGS137

Typical performance - not guaranteed values.

10 HP 3 PH 60 HZ 3500 RPM 460 V 3744M

TORQUES (LB-FT): PO=89.4 PU=39 LR=46.5 LRA=124





