

ABB BALDOR RELIANCE III

Customer information packet

SPM3711T-G

10HP, 3500RPM, 3PH, 60HZ, 215T, 3756M, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	215T
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	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	WEEE 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	10.300 A @ 460.0 V 20.600 A @ 230.0 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 Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	10.3 a
Insulation Class	F

Part Detail

Revision	A
Type	AC
Mech. spec.	37T739
Base	
Status	PRD/A
Elec. spec.	37WGR482
Layout	37LYT739
Eff. date	11-19-2025
CD Diagram	CD0005
Poles	02
Leads	9#12
Proprietary	False
Created date	04-02-2025

Inverter Code	Inverter Duty
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	5400 rpm
Motor Lead Quantity/Wire Size	9 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3756M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	20.52 IN
Power Factor	97
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.25
Shaft Diameter	1.375 IN
Shaft Ground Indicator	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

NP4423A01A01L															
CAT #	SPM3711T-G					WGT	187	LBS							
SPEC	37T739R482					ENCL	TEFC								
SER #						CC	010A	IP	54						
HP	10	MAG CUR				5.8/2.9									
VOLTS	230/460					NEMA NOM. EFF							91.7		
AMPS	20.6/10.3					PF	97								
RATING	40C AMB-CONT														
RPM	3500					MAX RPM			5400						
FRAME	215T	HZ	60	CODE			K	CLASS			H				
SER.F.	1.25	SF AMP	26/13				PH	3	DES	A					
DE	6307		ODE		6206										
LUBRICATION	POLYREX EM														
ID LOGO	INVERTER TYPE				VPWM		CHP	60	TO		90	1.5:1			
ID LOGO	WK2	0.512	CT	6	TO		60	10:1							
ID LOGO	SL HZ	1.7	VT	3	TO		60	20:1							

AC Induction Motor Performance Data

Record # 112289

Typical performance - not guaranteed values

Winding: 37WGR482-R010			Type: 3756M		Enclosure: TEFC		
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		10		Full Load Torque		14.7 LB-FT	
Volts		230/460		Start Configuration		direct on line	
Full Load Amps		20.6/10.3		Breakdown Torque		60.2 LB-FT	
R.P.M.		3500		Pull-up Torque		30.2 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		34.6 LB-FT	
NEMA Design Code		A	KVA Code	K	Starting Current		101 A
Service Factor (S.F.)		1.25		No-load Current		2.19 A	
NEMA Nom. Eff.		92.4	Power Factor	97	Line-line Res. @ 25°C		0.603 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		46°C	
S.F. Amps		24.8/12.4		Temp. Rise @ S.F. Load		62°C	
				Locked-rotor Power Factor		29.5	
				Rotor inertia		0.512 lb-ft²	

Load Characteristics 460 V, 60 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	79	93	98	97	97	96	97
Efficiency	89	92.6	93.1	92.3	91.1	89.6	91.1
Speed	3579	3556	3531	3505	3475	3436	3475
Line amperes	3.14	5.23	7.58	10.3	13.1	16.6	13.1

ABB Motors and Mechanical Inc.

WINDING # 37WGR482

Typical performance - not guaranteed values.

10 HP 3 PH 60 HZ 3500 RPM 460 V 3756M

TORQUES (LB-FT): PO=60.2 PU=30.2 LR=34.6 LRA=101

