

ABB BALDOR RELIANCE III

Customer information packet

SPM3710T

7.5HP, 1775RPM, 3PH, 60HZ, 213T, 3752M, TEFC, F

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
Agency Approvals	WEEE NEMA PREMIUM 4
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	19.800 A @ 230.0 V 9.900 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	92.4 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	9.9 a
Insulation Class	F

Part Detail

Revision	B
Type	AC
Mech. spec.	37T646
Base	
Status	PRD/A
Elec. spec.	37WGZ668
Layout	37LYT646
Eff. date	05-03-2024
CD Diagram	CD0005
Poles	04
Leads	9#14
Proprietary	False
Created date	09-05-2023

Inverter Code	Inverter Duty
KVA Code	L
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3752M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	20.52 IN
Power Factor	76
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	1.15
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

Nameplate

NP4423A01A01L														
CAT #	SPM3710T					WGT	165	LBS						
SPEC	37T646Z668					ENCL	TEFC							
SER #						CC	010A	IP	54					
HP	7.5				MAG CUR	10.6/5.3								
VOLTS	230/460					NEMA NOM. EFF				92.4				
AMPS	19.8/9.9					PF	76							
RATING	40C AMB-CONT													
RPM	1775					MAX RPM		2700						
FRAME	213T	HZ	60		CODE	L	CLASS	F						
SER.F.	1.15	SF AMP	22.2/11.1				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	1.28	CT	6	TO	60	10:1							
ID LOGO	SL HZ	0.8	VT	3	TO	60	20:1							
							QR							
YR														

AC Induction Motor Performance Data

Record # 96653

Typical performance - not guaranteed values

Winding: 37WGZ668-R001			Type: 3752M		Enclosure: TEFC	
Nameplate Data				460 V, 60 Hz: High Voltage Connection		
Rated Output (HP)		7.5		Full Load Torque		22.15 LB-FT
Volts		230/460		Start Configuration		direct on line
Full Load Amps		19.8/9.9		Breakdown Torque		103 LB-FT
R.P.M.		1775		Pull-up Torque		44.6 LB-FT
Hz	60	Phase	3	Locked-rotor Torque		62.6 LB-FT
NEMA Design Code		A	KVA Code	Starting Current		102 A
Service Factor (S.F.)		1.15		No-load Current		5.4 A
NEMA Nom. Eff.		92.4	Power Factor	Line-line Res. @ 25°C		0.91163 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		44°C
S.F. Amps		22.2/11.1		Temp. Rise @ S.F. Load		52°C
				Locked-rotor Power Factor		34.8

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	35	56	69	76	80	82	78
Efficiency	86.4	91.6	92.9	93.2	92.9	92.4	93
Speed	1794.5	1789.7	1784.9	1779.7	1774.4	1768.6	1777
Line amperes	5.84	6.87	8.27	9.94	11.8	13.8	11.1

ABB Motors and Mechanical Inc.

WINDING # 37WGZ668

Typical performance - not guaranteed values.

7.5 HP 3 PH 60 HZ 1775 RPM 460 V 3752M

TORQUES (LB-FT): PO=103 PU=44.6 LR=62.6 LRA=102





