

ABB BALDOR RELIANCE III

Customer information packet

EM7036T-I

3//2HP, 1160//960RPM, 3PH, 60//50HZ, 213T, 37

Class - CLI GP C,D

Division - Division I

Specifications

Enclosure	XPFC
Frame	213T
Frame Material	Steel
Frequency	50.00 Hz 60.00 Hz
Haz Area Class and Group	CLI GP C,D
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	3.000 HP @ 60 HZ 2.000 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	1000 RPM @ 50 HZ
Voltage @ Frequency	190.0 V @ 50 HZ 230.0 V @ 60 HZ 380.0 V @ 50 HZ 460.0 V @ 60 HZ
Agency Approvals	UL CSA CSA EEV 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	4.000 A @ 380.0 V 4.600 A @ 460.0 V 8.000 A @ 190.0 V 9.200 A @ 230.0 V 9.600 A @ 208.0 V
Design Code	B

Part Detail

Revision	Q
Type	AC
Mech. spec.	37H721
Base	
Status	PRD/A
Elec. spec.	37WGS519
Layout	37LYH721
Eff. date	02-21-2024
CD Diagram	CD0005
Poles	06
Leads	9#14
Proprietary	False
Created date	06-21-2010

Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	4.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	L
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No 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	3738M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	20.32 IN
Power Factor	68
Product Family	General Purpose
Pulley End Bearing Type	Sealed Bearing
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 Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding

Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1160 rpm 960 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP0977XPSLEV													
NO.							CC	010A					
SER.							TEMP CODE			T3C			
SPEC.	37H721S519G1												
CAT.NO.	EM7036T-I												
HP	3//2												
VOLTS	230/460//190/380												
AMPS	9.2/4.6//8/4												
RPM	1160//960					MOTOR WEIGHT			105				
HERTZ	60//50	PH	3	CL	F	DE BRG	6307						
SER.F.	1.15	DES	B	CODE		L	ODE BRG			6206			
FRAME	213T	GREASE			POLYREX EM								
RATING	40C AMB-CONT 55C AMB AT 1.0 SF												
					NEMA-NOM-EFF			89.5		PF	68		
	NEMA MG-1 PT 5,IP55												

AC Induction Motor Performance Data

Record # 35764

Typical performance - not guaranteed values

Winding: 37WGS519-R003			Type: 3738M		Enclosure: XPFC			
Nameplate Data				460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		3//2		Full Load Torque		13.4 LB-FT		
Volts		230/460//190/380		Start Configuration		direct on line		
Full Load Amps		9.2/4.6//8/4		Breakdown Torque		50.4 LB-FT		
R.P.M.		1160//960		Pull-up Torque		31.8 LB-FT		
Hz		60//50	Phase	3	Locked-rotor Torque		33.9 LB-FT	
NEMA Design Code		B		KVA Code	L	Starting Current		34 A
Service Factor (S.F.)		1.15		No-load Current		2.56 A		
NEMA Nom. Eff.		89.5	Power Factor	68	Line-line Res. @ 25°C		2.67 Ω	
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		38°C		
S.F. Amps				Temp. Rise @ S.F. Load		45°C		
				Locked-rotor Power Factor		22.9		
				Rotor inertia		0.945 LB-FT2		

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	30	50	62	69	73	75	70
Efficiency	82.1	88.6	89.5	89.8	89.1	87.6	89.1
Speed	1193	1186	1178	1170	1160	1149	1166
Line amperes	2.74	3.19	3.82	4.53	5.44	6.41	5.14

ABB Motors and Mechanical Inc.

WINDING # 37WGS519

Typical performance - not guaranteed values.

3 HP 3 PH 60 HZ 1170 RPM 460 V 3738M

TORQUES (LB-FT): PO=50.4 PU=31.8 LR=33.9 LRA=34





