

ABB BALDOR RELIANCE III

Customer information packet

XM21362T

3HP, 1160//960RPM, 3PH, 60HZ, 213T, XPFC, F1

Class - CLI GP D; CLII GP F,G

Division - Division I

Specifications

Enclosure	XPFC
Frame	213T
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP D; CLII GP F,G
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	1200 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 190.0 V @ 50 HZ 230.0 V @ 60 HZ 380.0 V @ 50 HZ
Agency Approvals	UL CSA EEV
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
Constant Torque Speed Range	6
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
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %

Part Detail

Revision	G
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	37WGS519
Layout	37LYN517
Eff. date	10-13-2022
CD Diagram	CD0005
Poles	06
Leads	9#14
Proprietary	False
Created date	04-04-2019

Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	4.0 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	NONE
KVA Code	L
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	1800 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3738M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	19.32 IN
Power Factor	68
Product Family	General Purpose
Pulley Face Code	Standard
Rodent Screen	None
RoHS Status	ROHS NON-COMPLIANT
Service Factor	1.00
Shaft Diameter	1.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	1160 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

NP0887XPSLEV												
NO.							CC	010A				
S/N							TEMP CODE		T3C			
SPEC.	37-0000-0041						INV.TYPE		PWM			
CAT.NO.	XM21362T						C HP FR		60	C HP TO		90
HP	3//2						CT HZ FROM		6	CT HZ TO		60
VOLTS	230/460//190/380						VT HZ FROM		6	VT HZ TO		60
AMPS	9.2/4.6//8/4				MAG CUR		5.2/2.6					
RPM	1160//960				MX RPM		1800					
HZ	60//50	PH	3	CL	F	NOM.EFF.		89.5				
SER.F.	1.00	DES	A	SL HZ		2	WK2	0.945				
FRAME	213T	RATING		40C AMB-CONT								
	55C AMB @ 1.0 SF											
	1.15 SF SINEWAVE						NEMA MG-1 PT 5,IP54					

AC Induction Motor Performance Data

Record # 73672

Typical performance - not guaranteed values

Winding: 37WGS519-R048			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		50.17 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		A		KVA Code	L	Starting Current		34 A
Service Factor (S.F.)						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		39°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
Power Factor	32	51	63	69	73	75
Efficiency	78.5	86.3	87.9	88.5	88.1	86.7
Speed	1193	1186	1178	1170	1160	1148
Line amperes	2.75	3.22	3.86	4.57	5.49	6.47

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=50.17 PU=31.8 LR=33.9 LRA=34





