

ABB BALDOR RELIANCE III

Customer information packet

CXM21122T

10//7.5HP, 3510//2915RPM, 3PH, 60//50HZ, 215

Class - CLI GP D; CLII GP F,G

Division - Division I

Specifications

Enclosure	XPFC
Frame	215TC
Frame Material	Steel
Frequency	50.00 Hz 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	10.000 HP @ 60 HZ 7.500 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	380.0 V @ 50 HZ 230.0 V @ 60 HZ 190.0 V @ 50 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA UR 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	22.400 A @ 230.0 V 20.800 A @ 190.0 V 11.200 A @ 460.0 V 10.400 A @ 380.0 V
Design Code	B
Drip Cover	No Drip Cover

Part Detail

Revision	F
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	37WGS627
Layout	37LYL772
Eff. date	07-02-2024
CD Diagram	CD0005
Poles	02
Leads	9#14
Proprietary	False
Created date	04-23-2021

Duty Rating	CONT
Efficiency @ 100% Load	90.2 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	10.4 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	NONE
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	5200 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3750M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	21.81 IN
Power Factor	90
Product Family	General Purpose
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	3510 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.	37-0000-0380						INV.TYPE		PWM				
CAT.NO.	CXM21122T						C HP FR		60	C HP TO		90	
HP	10//7.5						CT HZ FROM		6	CT HZ TO		60	
VOLTS	230/460//190/380						VT HZ FROM		6	VT HZ TO		60	
AMPS	22.4/11.2//20.8/10.4				MAG CUR		1.71/3.42						
RPM	3510//2915				MX RPM		5200						
HZ	60//50	PH	3	CL	F	NOM.EFF.		90.2					
SER.F.	1.15	DES	B	SL HZ		1.5	WK2	0.456					
FRAME	215TC	RATING		40C AMB-CONT									
	NEMA MG-1 PART 5, IP54												
	1.15 SF ON SINE WAVE												

AC Induction Motor Performance Data

Record # 87974

Typical performance - not guaranteed values

Winding: 37WGS627-R002			Type: 3750M		Enclosure: TEFC			
Nameplate Data			460 V, 60 Hz: High Voltage Connection					
Rated Output (HP)		10//7.5	Full Load Torque		14.93 LB-FT			
Volts		230/460//190/380	Start Configuration		direct on line			
Full Load Amps		22.4/11.2//20.8/10.4	Breakdown Torque		54 LB-FT			
R.P.M.		3510	Pull-up Torque		25.7 LB-FT			
Hz		60//50	Phase		3	Locked-rotor Torque	29.9 LB-FT	
NEMA Design Code		B	KVA Code		H	Starting Current		87.3 A
Service Factor (S.F.)		1		No-load Current		3.29 A		
NEMA Nom. Eff.		90.2	Power Factor		90	Line-line Res. @ 25°C		0.73857 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		52°C		
				Locked-rotor Power Factor		29.7		

Load Characteristics 460 V, 60 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	61	81	88	90	91	91
Efficiency	89	92.4	92.8	92.3	91.3	90.1
Speed	3578.8	3557.6	3534.8	3510.8	3483.4	3454.5
Line amperes	4.33	6.25	8.6	11.2	14.1	17.1

ABB Motors and Mechanical Inc.

WINDING # 37WGS627

Typical performance - not guaranteed values.

10 HP 3 PH 60 HZ 3510 RPM 460 V 3750M

TORQUES (LB-FT): PO=54 PU=25.7 LR=29.9 LRA=87.3





