

ABB BALDOR RELIANCE III

Customer information packet

IDXM7147T

7.5HP, 1770RPM, 3PH, 60HZ, 213TC, 0738M, XPFC

Class - CLI GP D

Division - Division I

Specifications

Enclosure	XPFC
Frame	213TC
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP D
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	7.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	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
Constant Torque Speed Range	30
Current @ Voltage	19.000 A @ 230.0 V 9.500 A @ 460.0 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
Haz Area Temp Code	T2B

Part Detail

Revision	-
Type	AC
Mech. spec.	07H517
Base	
Status	PRD/A
Elec. spec.	07WGT510
Layout	07LYH517
Eff. date	02-18-2021
CD Diagram	CD0005
Poles	04
Leads	9#14
Proprietary	False
Created date	01-28-2021

Heater Indicator	No Heater
High Voltage Full Load Amps	9.5 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	X0738M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	20.69 IN
Power Factor	81
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	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
Shaft Slinger Indicator	No Slinger
Speed	1770 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

NP0890XPSLEV											
NO.						CC	010A				
S/N						TEMP CODE			T2B		
SPEC.	07H517T510G1					INV.TYPE		PWM			
CAT.NO.	IDXM7147T					C HP FR	60	C HP TO	90		
HP	7.5					CT HZ FROM		30	CT HZ TO		60
VOLTS	230/460					VT HZ FROM		6	VT HZ TO		60
AMPS	19/9.5				MAG CUR	8.6/4.3					
RPM	1770				MX RPM	2700					
HZ	60	PH	3	CL	F	NOM.EFF.		91.7			
SER.F.	1.00	DES	A	SL HZ	1	WK2	0.934				
FRAME	213TC	RATING		40C AMB-CONT							
	75C RISE										

AC Induction Motor Performance Data

Record # 86636

Preliminary Data Sheet

Winding: 07WGT510-R009				Type: 0738M		Enclosure: XPFC		
Nameplate Data				460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		7.5		Full Load Torque		22.3 LB-FT		
Volts		230/460		Start Configuration		direct on line		
Full Load Amps		19/9.5		Breakdown Torque		69.1 LB-FT		
R.P.M.		1770		Pull-up Torque		28.7 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		39.1 LB-FT		
NEMA Design Code		A	KVA Code	J		Starting Current		67.4 A
Service Factor (S.F.)		1		No-load Current		4.07 A		
NEMA Nom. Eff.		91.7	Power Factor	81		Line-line Res. @ 25°C		1.55 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		48°C		
S.F. Amps		21.4/10.7		Temp. Rise @ S.F. Load				
				Locked-rotor Power Factor		41.2		
				Rotor inertia		0.934 lb-ft²		

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	44	66	76	81	84	85
Efficiency	88	91.7	92.2	91.7	90.7	89.3
Speed	1792	1785	1777	1769	1759	1749
Line amperes	4.61	5.85	7.48	9.43	11.6	13.9

ABB Motors and Mechanical Inc.

WINDING # 07WGT510

Typical performance - not guaranteed values.

7.5 HP 3 PH 60 HZ 1770 RPM 460 V 0738M

TORQUES (LB-FT): PO=69.1 PU=28.7 LR=39.1 LRA=67.4





