

ABB BALDOR RELIANCE III

Customer information packet

IDXM7054T

15HP, 1765RPM, 3PH, 60HZ, 254TC, 0944M, XPFC, F

Class - CLI GP D

Division - Division I

Specifications

Enclosure	XPFC
Frame	254TC
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	15.000 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 EEV UR CSA
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	36.200 A @ 230.0 V 38.000 A @ 208.0 V 18.100 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

Part Detail

Revision	D
Type	AC
Mech. spec.	09E963
Base	
Status	PRD/A
Elec. spec.	09WGT597
Layout	09LYE963
Eff. date	01-31-2025
CD Diagram	CD0005
Poles	04
Leads	9#12
Proprietary	False
Created date	02-02-2021

Haz Area Temp Code	T2B
Heater Indicator	No Heater
High Voltage Full Load Amps	18.1 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	9 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	X0944M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	26.00 IN
Power Factor	84
Product Family	Hazardous Location Motor
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	1.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1765 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.	09E963T597G1					INV.TYPE		PWM			
CAT.NO.	IDXM7054T					C HP FR	60	C HP TO	90		
HP	15					CT HZ FROM		30	CT HZ TO		60
VOLTS	230/460					VT HZ FROM		6	VT HZ TO		60
AMPS	36.2/18.1				MAG CUR	14.6/7.3					
RPM	1765				MX RPM	2700					
HZ	60	PH	3	CL	F	NOM.EFF.	92.4				
SER.F.	1.00	DES	A	SL HZ	1.2	WK2	1.93				
FRAME	254TC	RATING		40C AMB-CONT							

AC Induction Motor Performance Data

Record # 86513

Preliminary Data Sheet

Winding: 09WGT597-R008			Type: 0944M		Enclosure: XPFC		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		15	Full Load Torque		44.5 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		36.2/18.1	Breakdown Torque		154 LB-FT		
R.P.M.		1765	Pull-up Torque		67.2 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		83.5 LB-FT	
NEMA Design Code		A	KVA Code	H		Starting Current	129 A
Service Factor (S.F.)		1	No-load Current		7.32 A		
NEMA Nom. Eff.		92.4	Power Factor		84		
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		52°C
					Locked-rotor Power Factor		38.1
					Rotor inertia		1.92 lb-ft²

Load Characteristics 460 V, 60 Hz, 15 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	48	69	79	84	86	87
Efficiency	88	92.1	92.7	92.5	91.7	90.7
Speed	1792	1785	1777	1768	1759	1749
Line amperes	8.45	11	14.3	18.1	22.2	26.7

ABB Motors and Mechanical Inc.

WINDING # 09WGT597

Typical performance - not guaranteed values.

15 HP 3 PH 60 HZ 1765 RPM 460 V 0944M

TORQUES (LB-FT): PO=154 PU=67.2 LR=83.5 LRA=129





