

ABB BALDOR RELIANCE III

Customer information packet

IDXCM7554T-C

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

Class - CLI GP C,D; CLII GP F,G

Division - Division I

Specifications

Enclosure	XPFC
Frame	254TC
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP C,D; CLII GP F,G
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	230.0 V @ 60 HZ 460.0 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	15
Current @ Voltage	38.000 A @ 208.0 V 36.200 A @ 230.0 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
Enclosure Modification	Severe Duty Features
Feedback Device	NO FEEDBACK

Part Detail

Revision	J
Type	AC
Mech. spec.	09M509
Base	
Status	INA/A
Elec. spec.	09WZ910
Layout	09LYM509
Eff. date	03-10-2021
CD Diagram	CD0005
Poles	04
Leads	9#12
Proprietary	False
Created date	11-09-2016

Front Face Code	Standard
Front Shaft Indicator	None
Haz Area Temp Code	T3C
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 Exit	Ko Box
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	83
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 Extension Location	Pulley End
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

NP0681XPSLEV											
NO.						CC	010A				
S/N						TEMP CODE		T3C			
SPEC.	09M509Z910G1					INV.TYPE		PWM			
CAT.NO.						C HP FR	60	C HP TO	90		
HP	15					CT HZ FROM	15		CT HZ TO	60	
VOLTS	230/460					VT HZ FROM	6		VT HZ TO	60	
AMPS	36.2/18.1				MAG CUR	15.2/7.6					
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							
	1.15SF ON SINEWAVE										

AC Induction Motor Performance Data

Record # 51149

Typical performance - not guaranteed values

Winding: 09WGZ910-R044			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		153 LB-FT		
R.P.M.		1765		Pull-up Torque		69.5 LB-FT		
Hz		60	Phase	3	Locked-rotor Torque		86.5 LB-FT	
NEMA Design Code		A	KVA Code		H	Starting Current		127 A
Service Factor (S.F.)		1		No-load Current		7.56 A		
NEMA Nom. Eff.		92.4	Power Factor		83	Line-line Res. @ 25°C		0.59555 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		54°C		
				Locked-rotor Power Factor		33		
				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	45	69	79	83	85	87
Efficiency	88.2	92.2	92.7	92.4	91.5	90.4
Speed	1791.3	1783.1	1774	1765.2	1754.6	1743.1
Line amperes	8.62	11	14.5	18.1	22.6	26.9

ABB Motors and Mechanical Inc.

WINDING # 09WGZ910

Typical performance - not guaranteed values.

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

TORQUES (LB-FT): PO=153 PU=69.5 LR=86.5 LRA=127





