

ABB BALDOR RELIANCE III

Customer information packet

IDXM7547T-C

7.5HP, 1765RPM, 3PH, 60HZ, 213T, 0740M, XPFC, F

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

Division - Division I

Specifications

Enclosure	XPFC
Frame	213T
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	7.500 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	9.500 A @ 460.0 V 20.200 A @ 208.0 V 19.000 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Enclosure Modification	Severe Duty Features
Feedback Device	NO FEEDBACK

Part Detail

Revision	J
Type	AC
Mech. spec.	07J063
Base	
Status	PRD/A
Elec. spec.	07WGY818
Layout	07LYJ063
Eff. date	03-08-2021
CD Diagram	CD0005
Poles	04
Leads	9#14
Proprietary	False
Created date	11-03-2016

Front Face Code	Standard
Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	9.5 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Max Speed	2700 rpm
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	X0740M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	19.91 IN
Power Factor	81
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS NON-COMPLIANT
Service Factor	1.00
Shaft Diameter	1.375 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.	07J063Y818G1					INV.TYPE		PWM				
CAT.NO.						C HP FR	60	C HP TO	90			
HP	7.5					CT HZ FROM		15	CT HZ TO		60	
VOLTS	230/460					VT HZ FROM		6	VT HZ TO		60	
AMPS	19/9.5					MAG CUR	7.2/3.9					
RPM	1765					MX RPM	2700					
HZ	60	PH	3	CL	F	NOM.EFF.	91.7					
SER.F.	1.00	DES		B	SL HZ	1.16	WK2	0.98				
FRAME	213T	RATING		40C AMB-CONT								
	1.15 SF SINE WAVE											

AC Induction Motor Performance Data

Record # 60176

Typical performance - not guaranteed values

Winding: 07WGY818-R019			Type: 0740M		Enclosure: XPFC	
Nameplate Data				460 V, 60 Hz: High Voltage Connection		
Rated Output (HP)		7.5		Full Load Torque		22.39 LB-FT
Volts		230/460		Start Configuration		direct on line
Full Load Amps		19/9.5		Breakdown Torque		65.7 LB-FT
R.P.M.		1765		Pull-up Torque		32.5 LB-FT
Hz	60	Phase	3	Locked-rotor Torque		41.9 LB-FT
NEMA Design Code		B	KVA Code	H	Starting Current	
Service Factor (S.F.)		1		No-load Current		3.67 A
NEMA Nom. Eff.		91.7	Power Factor	81	Line-line Res. @ 25°C	
Rating - Duty		40C		AMB-CONT		Temp. Rise @ Rated Load
						57°C
						Locked-rotor Power Factor
						36.2
						Rotor inertia
						0.984 LB-FT2

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	47	69	78	83	84	85
Efficiency	88.8	92	92.2	91.7	90.4	89.1
Speed	1791	1783	1775	1765	1755	1743
Line amperes	4.29	5.61	7.32	9.29	11.6	13.9

ABB Motors and Mechanical Inc.

WINDING # 07WGY818

Typical performance - not guaranteed values.

7.5 HP 3 PH 60 HZ 1765 RPM 460 V 0740M

TORQUES (LB-FT): PO=65.7 PU=32.5 LR=41.9 LRA=64.6





