

ABB BALDOR RELIANCE III

Customer information packet

IDXM7544T-C

5HP, 1750RPM, 3PH, 60HZ, 184T, 0642M, XPFC, F1

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

Division - Division I

Specifications

Enclosure	XPFC
Frame	184T
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	5.000 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	6.600 A @ 460.0 V 14.000 A @ 208.0 V 13.200 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Enclosure Modification	Severe Duty Features
Feedback Device	NO FEEDBACK

Part Detail

Revision	K
Type	AC
Mech. spec.	06K965
Base	
Status	INA/A
Elec. spec.	06WGX182
Layout	06LYK965
Eff. date	03-08-2021
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	11-07-2016

Front Face Code	Standard
Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	6.6 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	J
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 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	X0642M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	17.56 IN
Power Factor	79
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	1.125 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1750 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.	06K965X182G1						INV.TYPE		PWM				
CAT.NO.							C HP FR	60		C HP TO	90		
HP	5						CT HZ FROM		15		CT HZ TO	60	
VOLTS	230/460						VT HZ FROM		6		VT HZ TO	60	
AMPS	13.2/6.6						MAG CUR		6/3				
RPM	1750						MX RPM		2700				
HZ	60	PH	3	CL	F	NOM.EFF.		89.5					
SER.F.	1.00	DES	B	SL HZ		1.7	WK2	0.39					
FRAME	184T	RATING		40C AMB-CONT									
	1.15SF SINEWAVE												

AC Induction Motor Performance Data

Record # 47867

Typical performance - not guaranteed values

Winding: 06WGX182-R036			Type: 0642M		Enclosure: TEFC	
Nameplate Data			460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		5	Full Load Torque		15 LB-FT	
Volts		230/460	Start Configuration		direct on line	
Full Load Amps		13.2/6.6	Breakdown Torque		53.9 LB-FT	
R.P.M.		1750	Pull-up Torque		22.4 LB-FT	
Hz	60 Phase	3	Locked-rotor Torque		31.8 LB-FT	
NEMA Design Code		B	KVA Code		J	
Service Factor (S.F.)		1	Starting Current		46.6 A	
NEMA Nom. Eff.		89.5	Power Factor		79	
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		53°C	
S.F. Amps			Temp. Rise @ S.F. Load		65°C	
			Locked-rotor Power Factor		40.5	
			Rotor inertia		0.391 LB-FT2	

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	41	63	75	81	84	85
Efficiency	85.2	89.8	90.3	89.8	88.4	86.9
Speed	1789	1777	1765	1752	1737	1721
Line amperes	3.35	4.14	5.21	6.45	7.91	9.47

ABB Motors and Mechanical Inc.

WINDING # 06WGX182

Typical performance - not guaranteed values.

5 HP 3 PH 60 HZ 1750 RPM 460 V 0642M

TORQUES (LB-FT): PO=53.9 PU=22.4 LR=31.8 LRA=46.6





