

ABB BALDOR RELIANCE III

Customer information packet

CEBM7144T

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

Class - CLI GP D; CLII GP F,G

Division - Division I

Specifications

Enclosure	XPFC
Frame	184TC
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP 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 EEV CSA 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
Current @ Voltage	13.000 A @ 230.0 V 6.500 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Brake Mounting
Front Shaft Indicator	None
Haz Area Temp Code	T3C

Part Detail

Revision	F
Type	AC
Mech. spec.	06J271
Base	
Status	PRD/A
Elec. spec.	06WGX182
Layout	06LYJ271
Eff. date	05-20-2025
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	10-17-2017

Heater Indicator	No Heater
High Voltage Full Load Amps	6.5 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
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	30.83 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 COMPLIANT
Service Factor	1.15
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

NP1426XPSLEV									
NO.		CC	010A						
SER.									
SPEC.	06J271X182G1								
CAT.NO.	CEBM7144T								
HP	5	T. CODE	T3C						
VOLTS	230/460								
AMPS	13/6.5								
RPM	1750								
HZ	60	PH	3	CL	B				
SER.F.	1.15	DES	B	CODE	J				
RATING	40C AMB-CONT								
FRAME	184TC	NEMA-NOM-EFF	89.5						
		PF	81						
BLANK									

AC Induction Motor Performance Data

Record # 57604

Typical performance - not guaranteed values

Winding: 06WGX182-R088			Type: 0642M		Enclosure: XPFC	
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		13/6.5	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.)		1.15	Starting Current		46.6 A	
NEMA Nom. Eff.		89.5	Power Factor		81	
Rating - Duty		40C AMB-CONT	Line-line Res. @ 25°C		2.63 Ω	
S.F. Amps			Temp. Rise @ Rated Load		53°C	
			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	S.F.
Power Factor	41	63	75	81	84	85	83
Efficiency	85.2	89.8	90.4	89.8	88.4	86.9	89
Speed	1789	1777	1765	1752	1737	1721	1743
Line amperes	3.35	4.14	5.21	6.45	7.91	9.47	7.33

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





