

ABB BALDOR RELIANCE III

Customer information packet

CEBM7142T

3HP, 1755RPM, 3PH, 60HZ, 182TC, 0632M, XPFC, F1

Class - CLI GP D; CLII GP F,G

Division - Division I

Specifications

Enclosure	XPFC
Frame	182TC
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	3.000 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	UR CSA CSA EEV
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	8.600 A @ 208.0 V 8.200 A @ 230.0 V 4.100 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

Part Detail

Revision	C
Type	AC
Mech. spec.	06J270
Base	
Status	PRD/A
Elec. spec.	06WGX181
Layout	06LYJ270
Eff. date	02-15-2024
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	02-20-2017

Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	4.1 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	X0632M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	27.20 IN
Power Factor	77
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	1755 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.	06J270X181G1								
CAT.NO.	CEBM7142T								
HP	3	T. CODE	T3C						
VOLTS	230/460								
AMPS	8.2/4.1								
RPM	1755								
HZ	60	PH	3	CL	B				
SER.F.	1.15	DES	B	CODE	J				
RATING	40C AMB-CONT								
FRAME	182TC	NEMA-NOM-EFF	89.5						
		PF	77						
BLANK									

AC Induction Motor Performance Data

Record # 57602

Typical performance - not guaranteed values

Winding: 06WGX181-R067			Type: 0632M		Enclosure: XPFC		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		3	Full Load Torque		9.06 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		8.2/4.1	Breakdown Torque		33.1 LB-FT		
R.P.M.		1755	Pull-up Torque		18.2 LB-FT		
Hz		60	Phase		3	Locked-rotor Torque	20.4 LB-FT
NEMA Design Code		B	KVA Code		J	Starting Current	29.8 A
Service Factor (S.F.)		1.15	No-load Current		2.14 A		
NEMA Nom. Eff.		89.5	Power Factor		77	Line-line Res. @ 25°C	3.93 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		35°C
S.F. Amps			Temp. Rise @ S.F. Load		42°C		
			Locked-rotor Power Factor		41.4		
			Rotor inertia		0.298 LB-FT2		

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	38	58	70	77	81	83	79
Efficiency	83.2	88.3	89.8	89.7	89.1	87.7	89.3
Speed	1790	1779	1769	1757	1744	1730	1749
Line amperes	2.34	2.79	3.39	4.1	4.91	5.86	4.59

ABB Motors and Mechanical Inc.

WINDING # 06WGX181

Typical performance - not guaranteed values.

3 HP 3 PH 60 HZ 1755 RPM 460 V 0632M

TORQUES (LB-FT): PO=33.1 PU=18.2 LR=20.4 LRA=29.8





