

ABB BALDOR RELIANCE III

Customer information packet

EM7026T-I

3//2HP, 3450//2890RPM, 3PH, 60//50HZ, 182T, 3

Class - CLI GP C,D

Division - Division I

Specifications

Enclosure	XPFC
Frame	182T
Frame Material	Steel
Frequency	50.00 Hz 60.00 Hz
Haz Area Class and Group	CLI GP C,D
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	3.000 HP @ 60 HZ 2.000 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	190.0 V @ 50 HZ 230.0 V @ 60 HZ 380.0 V @ 50 HZ 460.0 V @ 60 HZ
Agency Approvals	UL 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
Current @ Voltage	3.000 A @ 380.0 V 3.700 A @ 460.0 V 6.000 A @ 190.0 V 7.400 A @ 230.0 V 8.000 A @ 208.0 V
Design Code	B

Part Detail

Revision	W
Type	AC
Mech. spec.	36J694
Base	
Status	PRD/A
Elec. spec.	36WGS041
Layout	36LYJ694
Eff. date	02-21-2024
CD Diagram	CD0005
Poles	02
Leads	9#16
Proprietary	False
Created date	06-21-2010

Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	3.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No 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	3622M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	16.77 IN
Power Factor	91
Product Family	General Purpose
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	Standard
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	2890 rpm
	3450 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

NP0977XPSLEV												
NO.							CC	010A				
SER.							TEMP CODE		T3C			
SPEC.	36J694S041G1											
CAT.NO.	EM7026T-I											
HP	3//2											
VOLTS	230/460//190/380											
AMPS	7.4/3.7//6/3											
RPM	3450//2890						MOTOR WEIGHT		91			
HERTZ	60//50		PH	3	CL	F	DE BRG	6206				
SER.F.	1.15		DES	B	CODE	K	ODE BRG		6205			
FRAME	182T		GREASE		POLYREX EM							
RATING	40C AMB-CONT 55C AMB AT 1.0 SF											
					NEMA-NOM-EFF		86.5		PF	91		
	NEMA MG-1 PT 5,IP55											

AC Induction Motor Performance Data

Record # 35704

Typical performance - not guaranteed values

Winding: 36WGS041-R004		Type: 3622M	Enclosure: XPFC
Nameplate Data		460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	3//2	Full Load Torque	4.7 LB-FT
Volts	230/460//190/380	Start Configuration	direct on line
Full Load Amps	7.4/3.7//6/3	Breakdown Torque	19.7 LB-FT
R.P.M.	3450//2890	Pull-up Torque	12 LB-FT
Hz	60//50 Phase	Locked-rotor Torque	14.1 LB-FT
NEMA Design Code	B KVA Code	Starting Current	33.3 A
Service Factor (S.F.)	1.15	No-load Current	1.17 A
NEMA Nom. Eff.	86.5 Power Factor	Line-line Res. @ 25°C	4.62 Ω
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	52°C
S.F. Amps		Temp. Rise @ S.F. Load	64°C
		Locked-rotor Power Factor	48
		Rotor inertia	0.0984 LB-FT ²

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	66	82	88	91	92	93	92
Efficiency	80.4	86	87.4	86.9	86.1	84.5	86.4
Speed	3565	3535	3504	3472	3434	3394	3449
Line amperes	1.56	2.17	2.93	3.67	4.57	5.5	4.21

ABB Motors and Mechanical Inc.

WINDING # 36WGS041

Typical performance - not guaranteed values.

3 HP 3 PH 60 HZ 3472 RPM 460 V 3622M

TORQUES (LB-FT): PO=19.7 PU=12 LR=14.1 LRA=33.3





