

ABB BALDOR RELIANCE III

Customer information packet

EM7013T-I

1//.75HP, 3450//2850RPM, 3PH, 60//50HZ, 143T

Class - CLI GP C,D

Division - Division I

Specifications

Enclosure	XPFC
Frame	143T
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	1.000 HP @ 60 HZ .750 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 190.0 V @ 50 HZ 230.0 V @ 60 HZ 380.0 V @ 50 HZ
Agency Approvals	UL CSA
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	1.400 A @ 380.0 V 1.400 A @ 460.0 V 2.800 A @ 190.0 V 2.800 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	77.0 %

Part Detail

Revision	Z
Type	AC
Mech. spec.	35X081
Base	
Status	PRD/A
Elec. spec.	35WGY474
Layout	35LYX081
Eff. date	05-20-2024
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	07-12-2010

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	1.4 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 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3516M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	14.21 IN
Power Factor	87
Product Family	Hazardous Location Motor
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	2850 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.	35X081Y474G1											
CAT.NO.	EM7013T-I											
HP	1//.75											
VOLTS	230/460//190/380											
AMPS	2.8/1.4											
RPM	3450//2850					MOTOR WEIGHT			51			
HERTZ	60//50		PH	3	CL	F	DE BRG	6205				
SER.F.	1.15		DES	B	CODE	K	ODE BRG	6203				
FRAME	143T		GREASE			POLYREX EM						
RATING	40C AMB-CONT											
					NEMA-NOM-EFF			77		PF	87	
	55C AMB @ 1.0 SF											

AC Induction Motor Performance Data

Record # 36265

Typical performance - not guaranteed values

Winding: 35WGY474-R009			Type: 3516M		Enclosure: XPFC	
Nameplate Data				380 V, 50 Hz: High Voltage Connection		
Rated Output (HP)		1//.75		Full Load Torque		1.36 LB-FT
Volts		230/460//190/380		Start Configuration		direct on line
Full Load Amps		2.8/1.4		Breakdown Torque		5.08 LB-FT
R.P.M.		3450//2850		Pull-up Torque		3.86 LB-FT
Hz		60//50 Phase		Locked-rotor Torque		3.95 LB-FT
NEMA Design Code		B KVA Code		Starting Current		8.22 A
Service Factor (S.F.)		1.15		No-load Current		0.646 A
NEMA Nom. Eff.		77 Power Factor		Line-line Res. @ 25°C		19.4 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		41°C
S.F. Amps				Temp. Rise @ S.F. Load		47°C
				Locked-rotor Power Factor		70
				Rotor inertia		0.0443 LB-FT2

Load Characteristics 380 V, 50 Hz, 0.75 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	54	71	80	85	87	87	86
Efficiency	54.2	67.7	73	74.8	74.8	73.5	74.8
Speed	2955	2922	2886	2848	2804	2754	2822
Line amperes	0.737	0.882	1.09	1.32	1.59	1.9	1.48

ABB Motors and Mechanical Inc.

WINDING # 35WGY474

Typical performance - not guaranteed values.

0.75 HP 3 PH 50 HZ 2848 RPM 380 V 3516M

TORQUES (LB-FT) : PO=5.08 PU=3.86 LR=3.95 LRA=8.22





