

ABB BALDOR RELIANCE III

Customer information packet

EM7034T-I

1.5//1HP, 1760//1460 75CRISERPM, 3PH, 60//5

Class - CLI GP C,D

Division - Division I

Specifications

Enclosure	XPFC
Frame	145T
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	1.500 HP @ 60 HZ 1.000 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	1500 RPM @ 50 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	1.900 A @ 380.0 V 2.200 A @ 460.0 V 3.800 A @ 190.0 V 4.400 A @ 230.0 V 4.500 A @ 208.0 V
Design Code	B

Part Detail

Revision	W
Type	AC
Mech. spec.	35X081
Base	
Status	NLA/A
Elec. spec.	35WGM493
Layout	35LYX081
Eff. date	01-19-2023
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	09-27-2010

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	1.9 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	L
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	3526M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	15.09 IN
Power Factor	73
Product Family	Hazardous Location Motor
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible

Shaft Slinger Indicator	No Slinger
Speed	1460 rpm 1760 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.	35X081M493G1												
CAT.NO.	EM7034T-I												
HP	1.5//1												
VOLTS	230/460//190/380												
AMPS	4.4/2.2//3.8/1.9												
RPM	1760//1460 75CRISE					MOTOR WEIGHT					61		
HERTZ	60//50		PH	3	CL	F	DE BRG		6205				
SER.F.	1.15		DES	B	CODE		L	ODE BRG		6203			
FRAME	145T		GREASE			POLYREX EM							
RATING	40C AMB-CONT 55C AMB AT 1.0 SF												
NEMA-NOM-EFF	86.5		PF	73									
	NEMA MG-1 PT 5,IP55												

AC Induction Motor Performance Data

Record # 34480

Typical performance - not guaranteed values

Winding: 35WGM493-R005			Type: 3526M		Enclosure: XPFC		
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		1.5//1		Full Load Torque		4.47 LB-FT	
Volts		230/460//190/380		Start Configuration		direct on line	
Full Load Amps		4.4/2.2//3.8/1.9		Breakdown Torque		19.2 LB-FT	
R.P.M.		1760//1460		Pull-up Torque		9.4 LB-FT	
Hz	60//50	Phase	3	Locked-rotor Torque		13.4 LB-FT	
NEMA Design Code		B	KVA Code	L	Starting Current		18.3 A
Service Factor (S.F.)		1.15		No-load Current		1.37 A	
NEMA Nom. Eff.		86.5	Power Factor	73	Line-line Res. @ 25°C		10.7 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		44°C	
S.F. Amps				Temp. Rise @ S.F. Load		52°C	
				Locked-rotor Power Factor		52	
				Rotor inertia		0.154 LB-FT2	

Load Characteristics 460 V, 60 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	31	51	65	73	79	83	77
Efficiency	76.2	84.5	86.9	87.2	86.5	85.3	86.8
Speed	1791	1781	1771	1760	1748	1735	1753
Line amperes	1.44	1.61	1.86	2.19	2.58	2.98	2.42

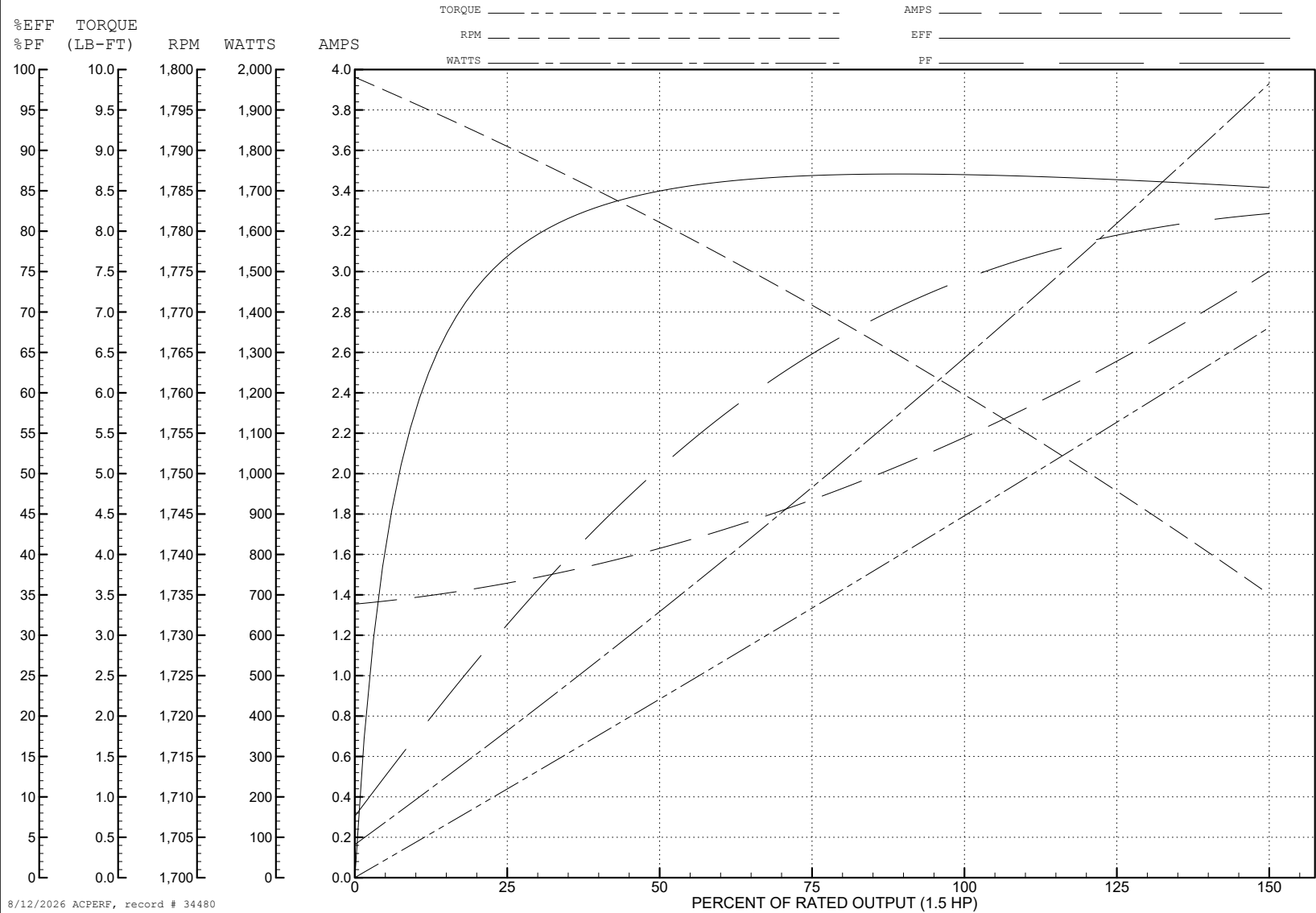
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WINDING # 35WGM493

Typical performance - not guaranteed values.

1.5 HP 3 PH 60 HZ 1760 RPM 460 V 3526M

TORQUES (LB-FT): PO=19.2 PU=9.4 LR=13.4 LRA=18.3



AC Induction Motor Performance Data

Record # 46474

Typical performance - not guaranteed values

Winding: 35WGM493-R005			Type: 3526M		Enclosure: XPFC			
Nameplate Data				380 V, 50 Hz: High Voltage Connection				
Rated Output (HP)		1.5//1		Full Load Torque		3.57 LB-FT		
Volts		230/460//190/380		Start Configuration		direct on line		
Full Load Amps		4.4/2.2//3.8/1.9		Breakdown Torque		17.8 LB-FT		
R.P.M.		1760//1460		Pull-up Torque		9.36 LB-FT		
Hz		60//50	Phase	3	Locked-rotor Torque		13.3 LB-FT	
NEMA Design Code		B		KVA Code	L	Starting Current		17.3 A
Service Factor (S.F.)		1.15		No-load Current		1.34 A		
NEMA Nom. Eff.		86.5	Power Factor		73	Line-line Res. @ 25°C		10.1 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		35°C		
S.F. Amps				Temp. Rise @ S.F. Load		41°C		
				Locked-rotor Power Factor		57		
				Rotor inertia		0.154 LB-FT2		

Load Characteristics 380 V, 50 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	27	45	59	69	75	80	73
Efficiency	72.8	82.3	85.4	86.2	85.9	84.9	86
Speed	1492	1485	1476	1468	1458	1447	1462
Line amperes	1.39	1.5	1.67	1.91	2.2	2.5	2.08

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WINDING # 35WGM493

Typical performance - not guaranteed values.

1 HP 3 PH 50 HZ 1468 RPM 380 V 3526M

TORQUES (LB-FT): PO=17.8 PU=9.36 LR=13.3 LRA=17.3

