

ABB BALDOR RELIANCE III

Customer information packet

CEM7034T-I

1.5//1HP, 1760//1460RPM, 3PH, 60//50HZ, 145T

Class - CLI GP C,D

Division - Division I

Specifications

Enclosure	XPFC
Frame	145TC
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	S
Type	AC
Mech. spec.	35X732
Base	
Status	NLA/A
Elec. spec.	35WGM493
Layout	35LYX732
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	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	15.23 IN
Power Factor	73
Product Family	Hazardous Location Motor
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	0.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding

Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft 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.	35X732M493G1										
CAT.NO.	CEM7034T-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	145TC		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		Locked-rotor Torque		13.4 LB-FT
NEMA Design Code		B KVA Code		Starting Current		18.3 A
Service Factor (S.F.)		1.15		No-load Current		1.37 A
NEMA Nom. Eff.		86.5 Power Factor		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

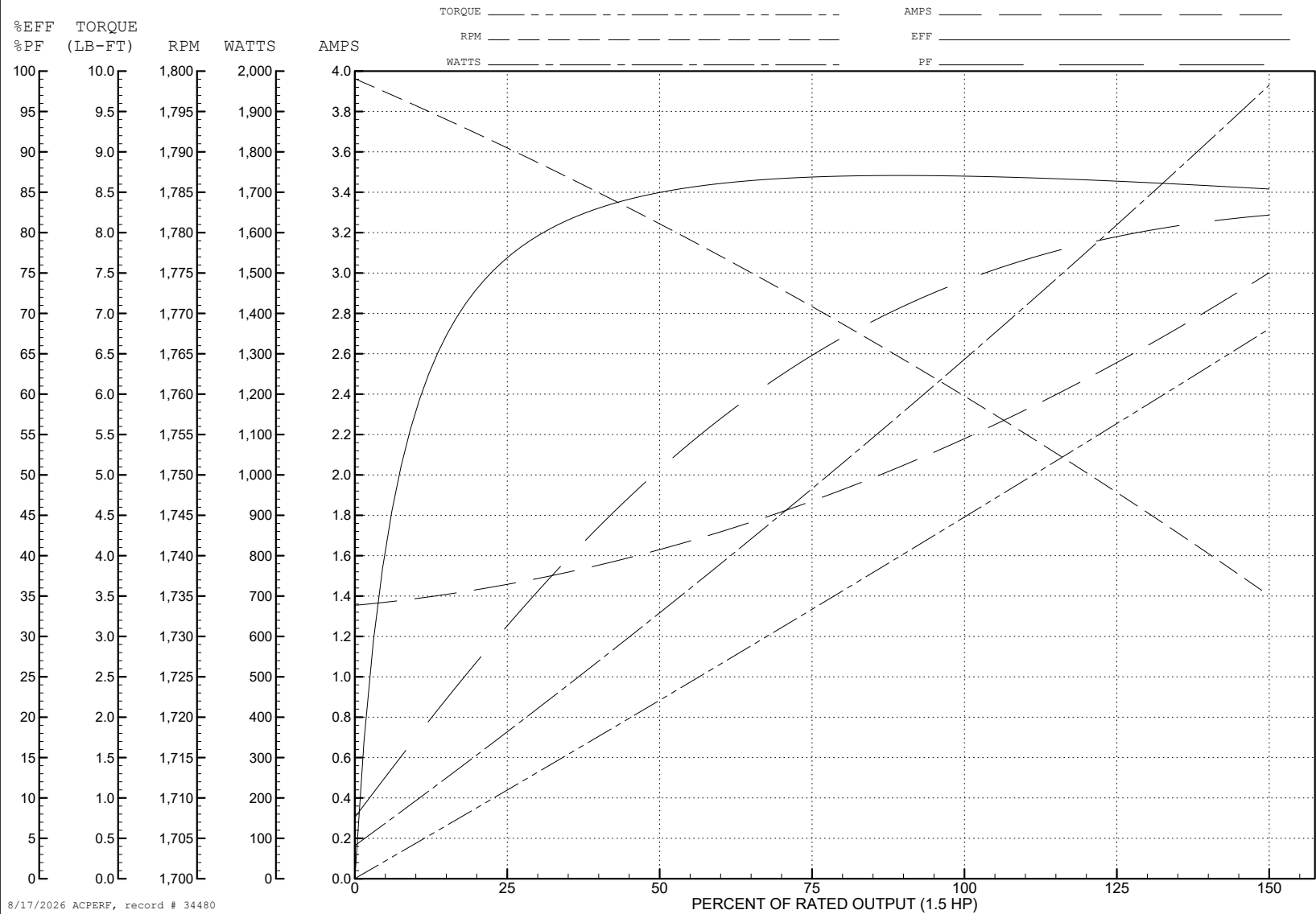
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WINDING # 35WGM493

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	Starting Current		17.3 A
Service Factor (S.F.)		1.15		No-load Current		1.34 A
NEMA Nom. Eff.		86.5	Power Factor	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

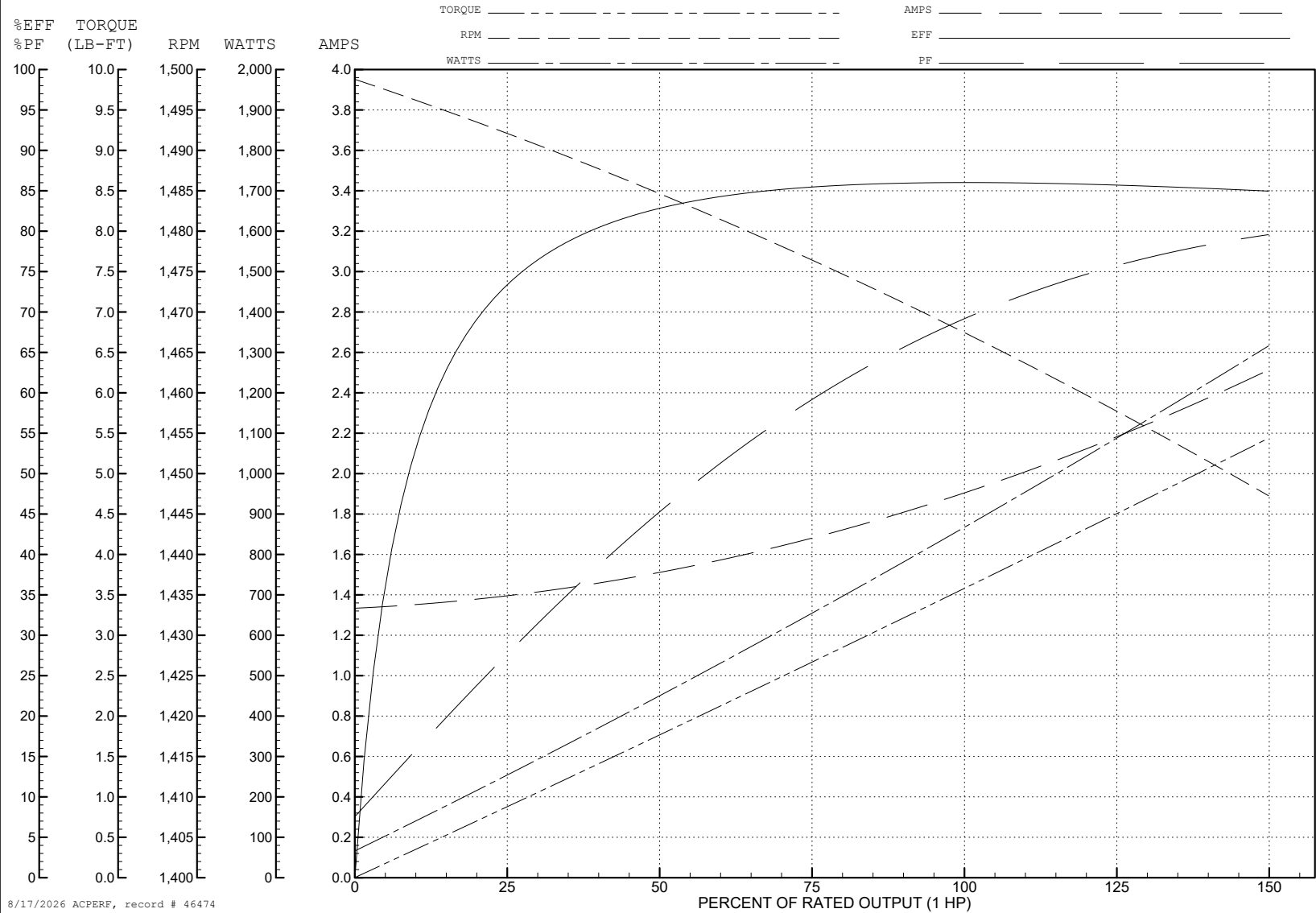
ABB Motors and Mechanical Inc.

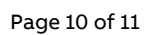
WINDING # 35WGM493

Typical performance - not guaranteed values.

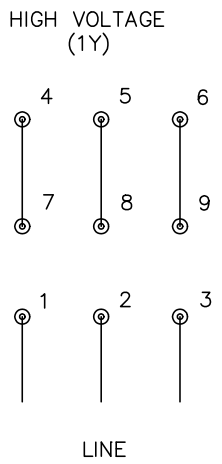
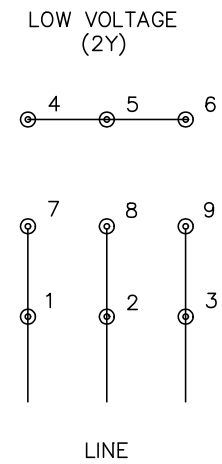
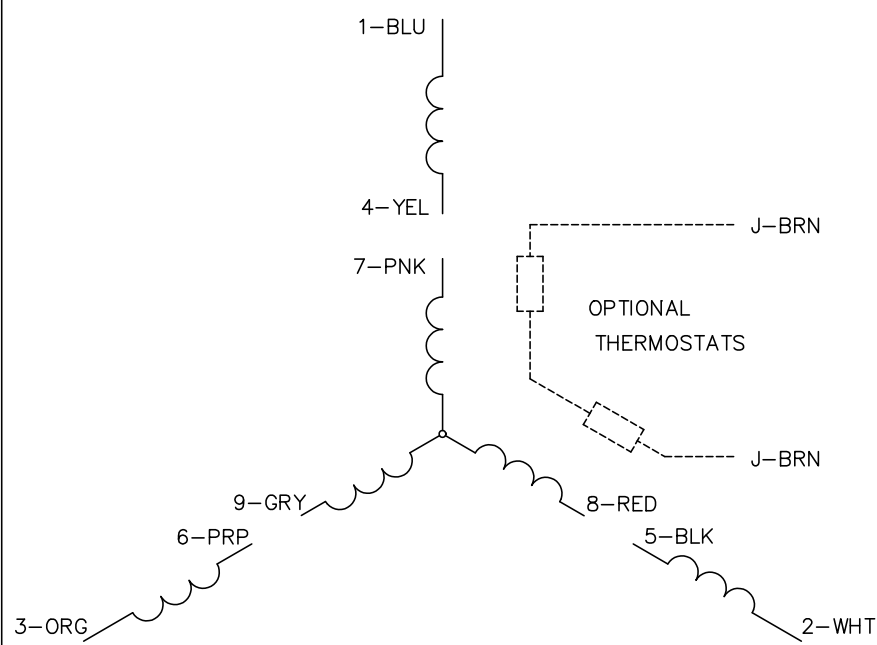
1 HP 3 PH 50 HZ 1468 RPM 380 V 3526M

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





CD0005



- NOTES:
- 1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
 - 2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
 - 3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
 - 4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
900000		FILE: AAA00005140	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005