

ABB BALDOR RELIANCE III

Customer information packet

CEM7013

1//.75HP, 3450//2850RPM, 3PH, 60//50HZ, 56C

Class - CLI GP D; CLII GP F,G

Division - Division I

Specifications

Enclosure	XPFC
Frame	56C
Frame Material	Steel
Frequency	50.00 Hz 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	.750 HP @ 50 HZ 1.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	380.0 V @ 50 HZ 230.0 V @ 60 HZ 190.0 V @ 50 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA EEV CSA 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	2.800 A @ 230.0 V 2.900 A @ 208.0 V 2.800 A @ 190.0 V 1.400 A @ 460.0 V 1.400 A @ 380.0 V
Design Code	B
Drip Cover	No Drip Cover

Part Detail

Revision	H
Type	AC
Mech. spec.	34-5331
Base	
Status	PRD/A
Elec. spec.	34WGR348
Layout	34LY5331
Eff. date	02-15-2024
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	11-10-2015

Duty Rating	CONT
Efficiency @ 100% Load	77.0 %
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	B
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	3418M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	14.22 IN
Power Factor	83
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	1.00
Shaft Diameter	0.625 IN
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

NP1426XPSLEV									
NO.		CC	010A						
SER.									
SPEC.	34-5331R348G1								
CAT.NO.	CEM7013								
HP	1//.75	T. CODE	T3C						
VOLTS	230/460//190/380								
AMPS	2.8/1.4								
RPM	3450//2850								
HZ	60//50	PH	3	CL	B				
SER.F.	1.00	DES	B	CODE	L				
RATING	40C AMB-CONT								
FRAME	56C	NEMA-NOM-EFF	77						
		PF	83						
BLANK									

AC Induction Motor Performance Data

Record # 53914

Typical performance - not guaranteed values

Winding: 34WGR348-R003		Type: 3418M	Enclosure: XPFC
Nameplate Data		380 V, 50 Hz: High Voltage Connection	
Rated Output (HP)	1//.75	Full Load Torque	1.37 LB-FT
Volts	230/460//190/380	Start Configuration	direct on line
Full Load Amps	2.8/1.4	Breakdown Torque	5.59 LB-FT
R.P.M.	3450//2850	Pull-up Torque	3.98 LB-FT
Hz	60//50 Phase	Locked-rotor Torque	4.24 LB-FT
NEMA Design Code	B KVA Code	Starting Current	11.3 A
Service Factor (S.F.)	1	No-load Current	0.825 A
NEMA Nom. Eff.	77 Power Factor	Line-line Res. @ 25°C	17.1 Ω
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	53°C
		Locked-rotor Power Factor	74
		Rotor inertia	0.0167 LB-FT2

Load Characteristics 380 V, 50 Hz, 0.75 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	43	62	74	82	87	90
Efficiency	56.7	70	74.4	76.1	76	74.7
Speed	2964	2934	2904	2868	2829	2784
Line amperes	0.872	0.98	1.15	1.36	1.61	1.9

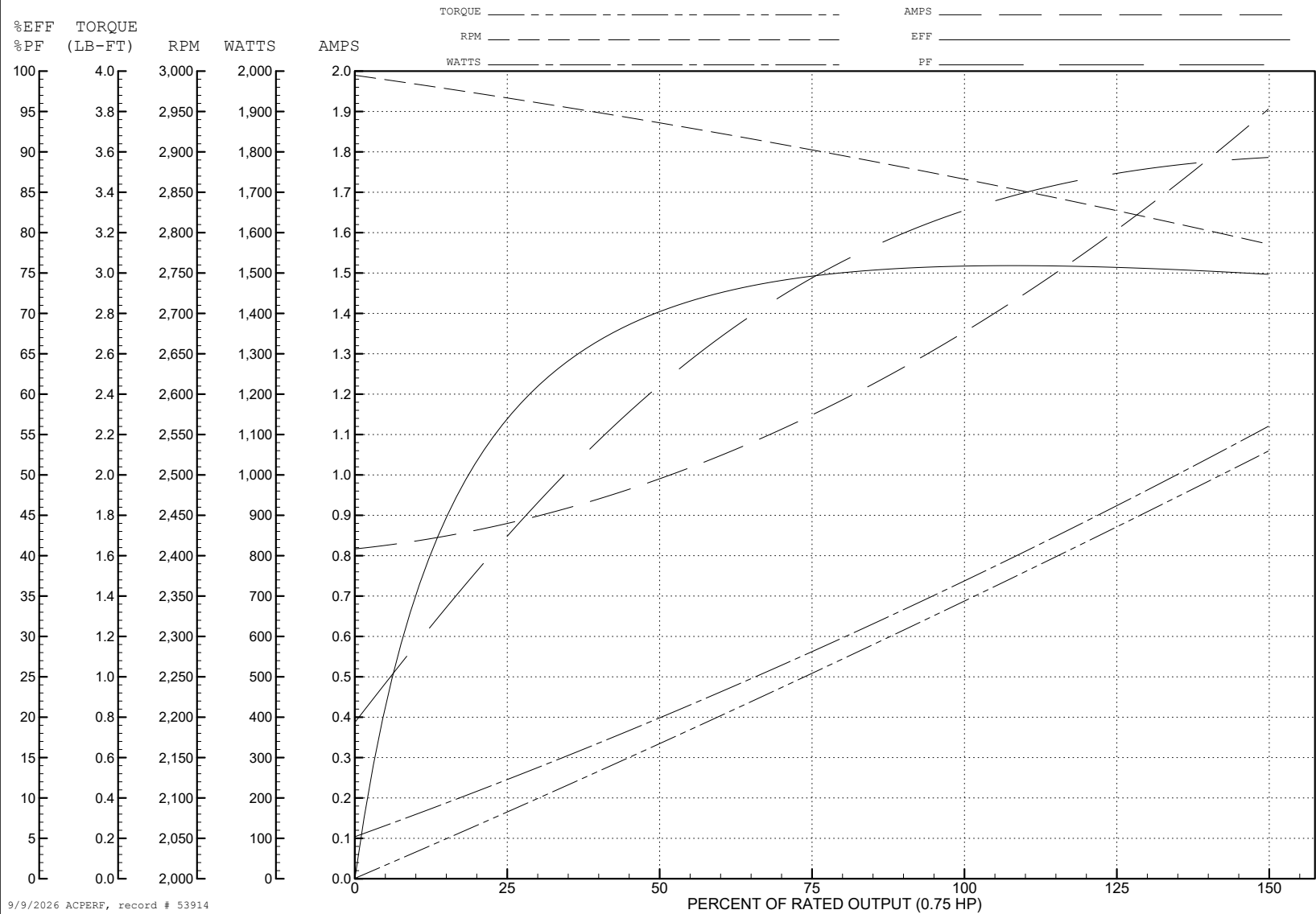
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WINDING # 34WGR348

Typical performance - not guaranteed values.

0.75 HP 3 PH 50 HZ 2868 RPM 380 V 3418M

TORQUES (LB-FT) : PO=5.59 PU=3.98 LR=4.24 LRA=11.3



AC Induction Motor Performance Data

Record # 53915

Typical performance - not guaranteed values

Winding: 34WGR348-R003		Type: 3418M	Enclosure: XPFC
Nameplate Data		460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	1//.75	Full Load Torque	1.52 LB-FT
Volts	230/460//190/380	Start Configuration	direct on line
Full Load Amps	2.8/1.4	Breakdown Torque	6.26 LB-FT
R.P.M.	3450//2850	Pull-up Torque	4.11 LB-FT
Hz	60//50 Phase	Locked-rotor Torque	4.38 LB-FT
NEMA Design Code	B KVA Code	Starting Current	12.5 A
Service Factor (S.F.)	1	No-load Current	0.844 A
NEMA Nom. Eff.	77 Power Factor	Line-line Res. @ 25°C	17.1 Ω
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	59°C
		Locked-rotor Power Factor	68
		Rotor inertia	0.0167 LB-FT ²

Load Characteristics 460 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	44	63	75	83	87	90
Efficiency	60.2	72.8	76.8	78.4	77.9	76.6
Speed	3561	3528	3494	3455	3411	3361
Line amperes	0.898	1.02	1.21	1.44	1.72	2.03

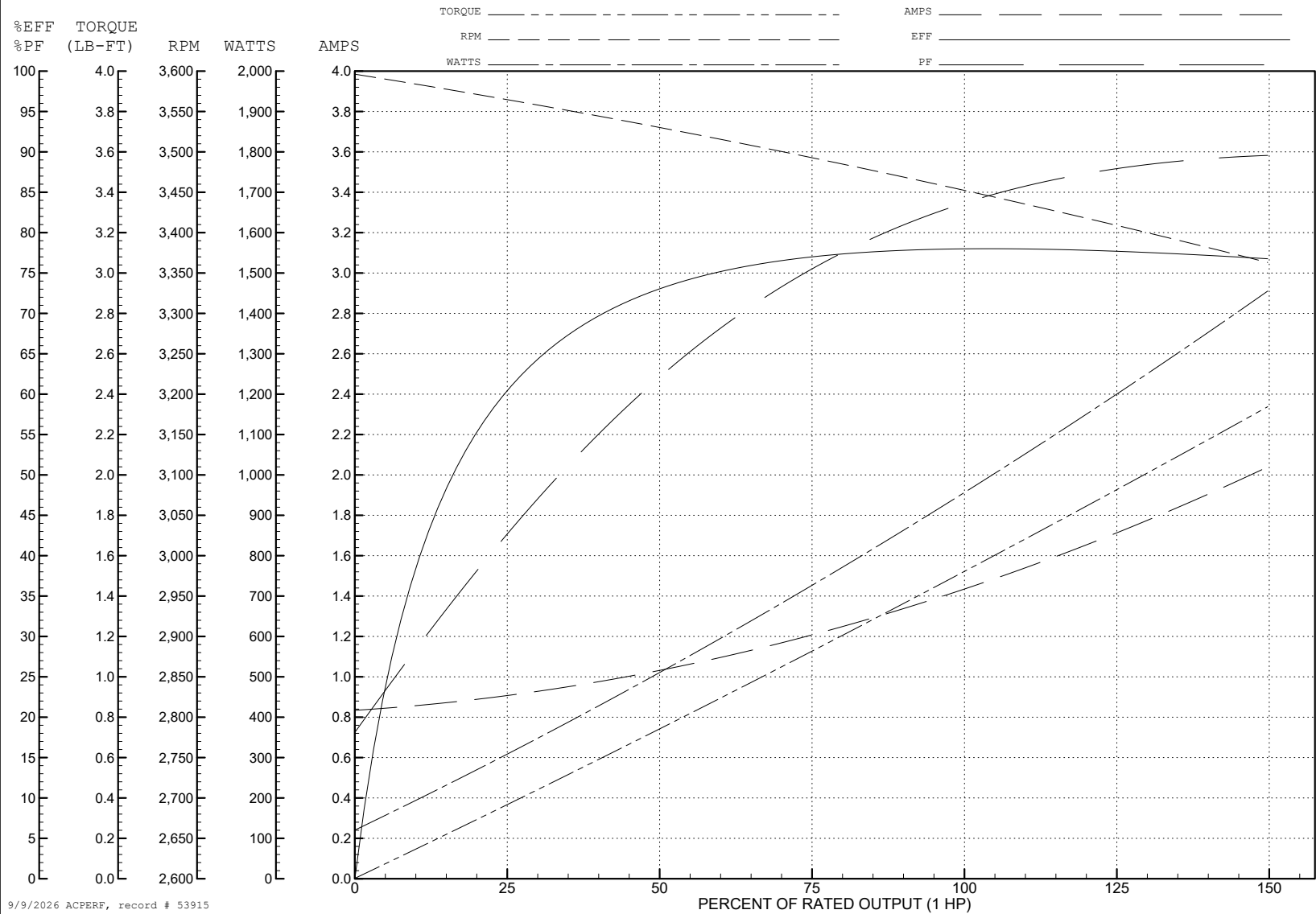
ABB Motors and Mechanical Inc.

WINDING # 34WGR348

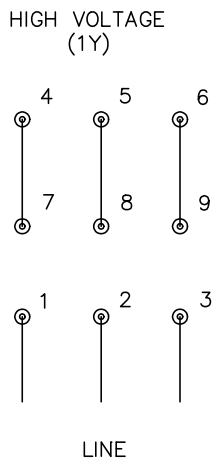
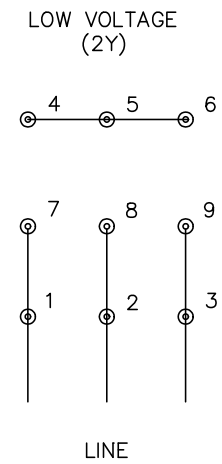
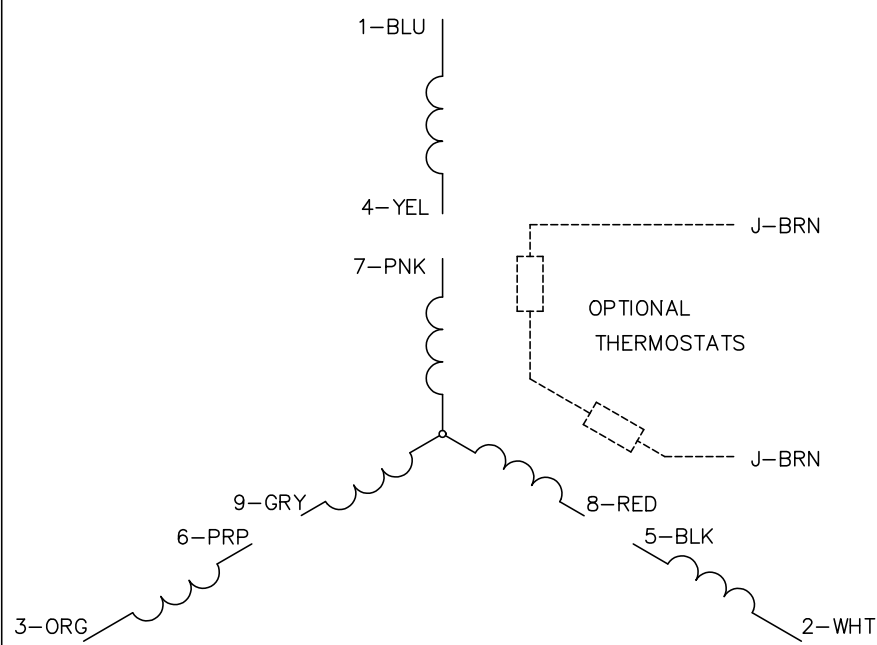
Typical performance - not guaranteed values.

1 HP 3 PH 60 HZ 3455 RPM 460 V 3418M

TORQUES (LB-FT) : PO=6.26 PU=4.11 LR=4.38 LRA=12.5



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: -
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BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005