

ABB BALDOR RELIANCE III

Customer information packet

EM7042T-I

3//2HP, 1760//1460 75CRISERPM, 3PH, 60//50H

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	1800 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	3.600 A @ 380.0 V 4.200 A @ 460.0 V 7.200 A @ 190.0 V 8.400 A @ 230.0 V 9.000 A @ 208.0 V
Design Code	B

Part Detail

Revision	AA
Type	AC
Mech. spec.	36J694
Base	
Status	PRD/A
Elec. spec.	36WGS266
Layout	36LYJ694
Eff. date	06-03-2026
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	09-30-2010

Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
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	3.6 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	3632M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	18.27 IN
Power Factor	75
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	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.	36J694S266G1											
CAT.NO.	EM7042T-I											
HP	3//2											
VOLTS	230/460//190/380											
AMPS	8.4/4.2//7.2/3.6											
RPM	1760//1460 75CRISE				MOTOR WEIGHT			107				
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			89.5		PF	75	
	NEMA MG-1 PT 5,IP55											

AC Induction Motor Performance Data

Record # 32662

Typical performance - not guaranteed values

Winding: 36WGS266-R004			Type: 3632M		Enclosure: XPFC			
Nameplate Data				380 V, 50 Hz: High Voltage Connection				
Rated Output (HP)		3//2		Full Load Torque		7.04 LB-FT		
Volts		230/460//190/380		Start Configuration		direct on line		
Full Load Amps		8.4/4.2//7.2/3.6		Breakdown Torque		35.4 LB-FT		
R.P.M.		1760//1460		Pull-up Torque		15.4 LB-FT		
Hz		60//50	Phase	3	Locked-rotor Torque		22 LB-FT	
NEMA Design Code		B		KVA Code	K	Starting Current		31.5 A
Service Factor (S.F.)		1.15		No-load Current		2.26 A		
NEMA Nom. Eff.		89.5	Power Factor	75	Line-line Res. @ 25°C		3.81 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		46.9		
				Rotor inertia		0.298 LB-FT2		

Load Characteristics 380 V, 50 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	30	49	63	71	77	80	74
Efficiency	76.9	85.4	88.1	88.7	88.9	87.7	88.6
Speed	1493	1486	1478	1471	1462	1452	1463
Line amperes	2.38	2.65	3.07	3.55	4.16	4.83	3.96

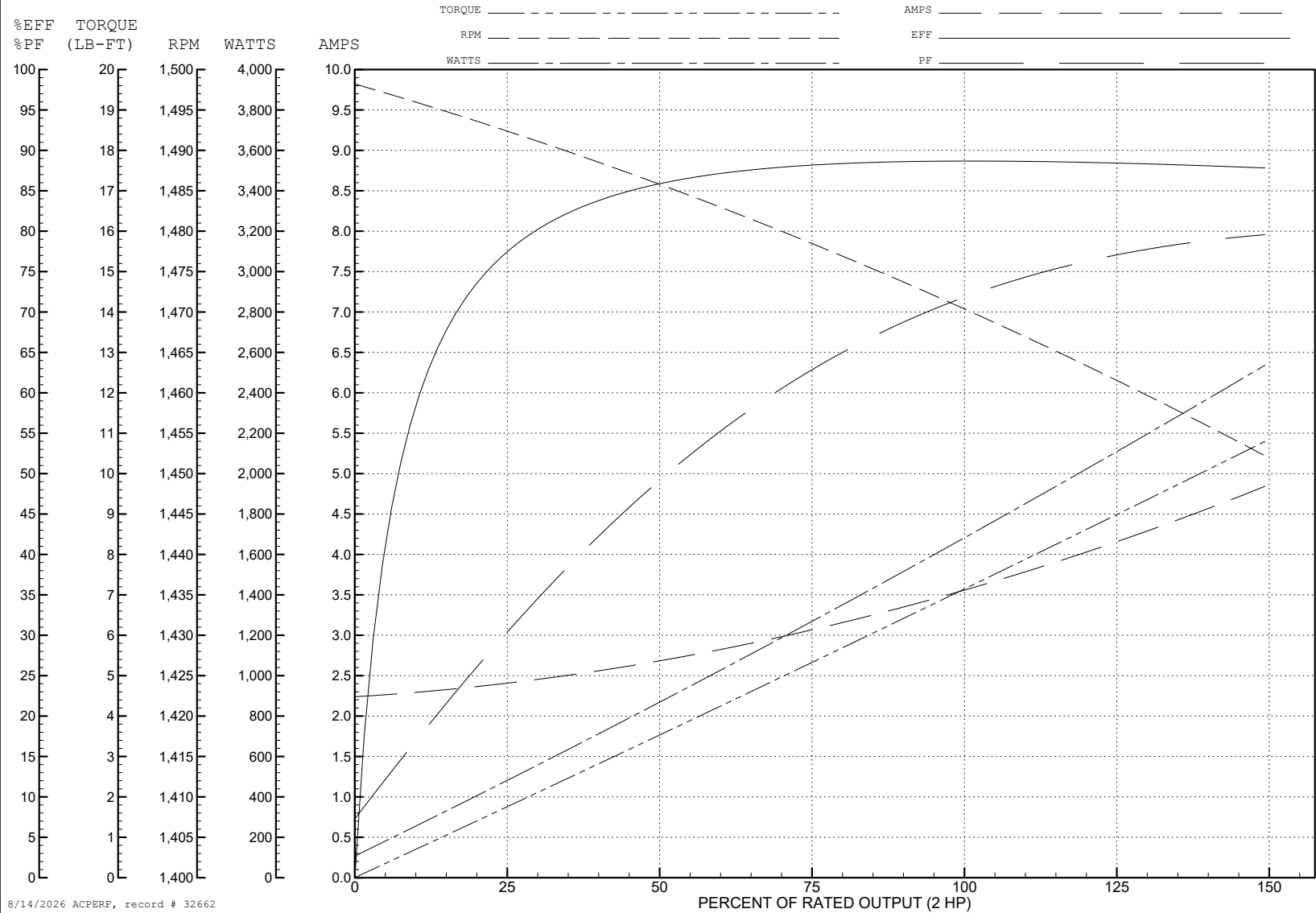
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WINDING # 36WGS266

Typical performance - not guaranteed values.

2 HP 3 PH 50 HZ 1471 RPM 380 V 3632M

TORQUES (LB-FT): PO=35.4 PU=15.4 LR=22 LRA=31.5



AC Induction Motor Performance Data

Record # 33191

Typical performance - not guaranteed values

Winding: 36WGS266-R004			Type: 3632M		Enclosure: XPFC	
Nameplate Data			460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		3//2	Full Load Torque		8.8 LB-FT	
Volts		230/460//190/380	Start Configuration		direct on line	
Full Load Amps		8.4/4.2//7.2/3.6	Breakdown Torque		37.6 LB-FT	
R.P.M.		1760//1460	Pull-up Torque		15.2 LB-FT	
Hz		60//50	Phase		3	
NEMA Design Code		B	KVA Code		K	
Service Factor (S.F.)		1.15	No-load Current		2.3 A	
NEMA Nom. Eff.		89.5	Power Factor		75	
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load	
S.F. Amps					Temp. Rise @ S.F. Load	
					Locked-rotor Power Factor	
					Rotor inertia	

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	35	55	68	75	80	82	77
Efficiency	81.1	87.8	89.6	89.8	89.7	88.2	89.2
Speed	1791	1783	1773	1764	1753	1741	1754
Line amperes	2.47	2.85	3.43	4.09	4.89	5.78	4.63

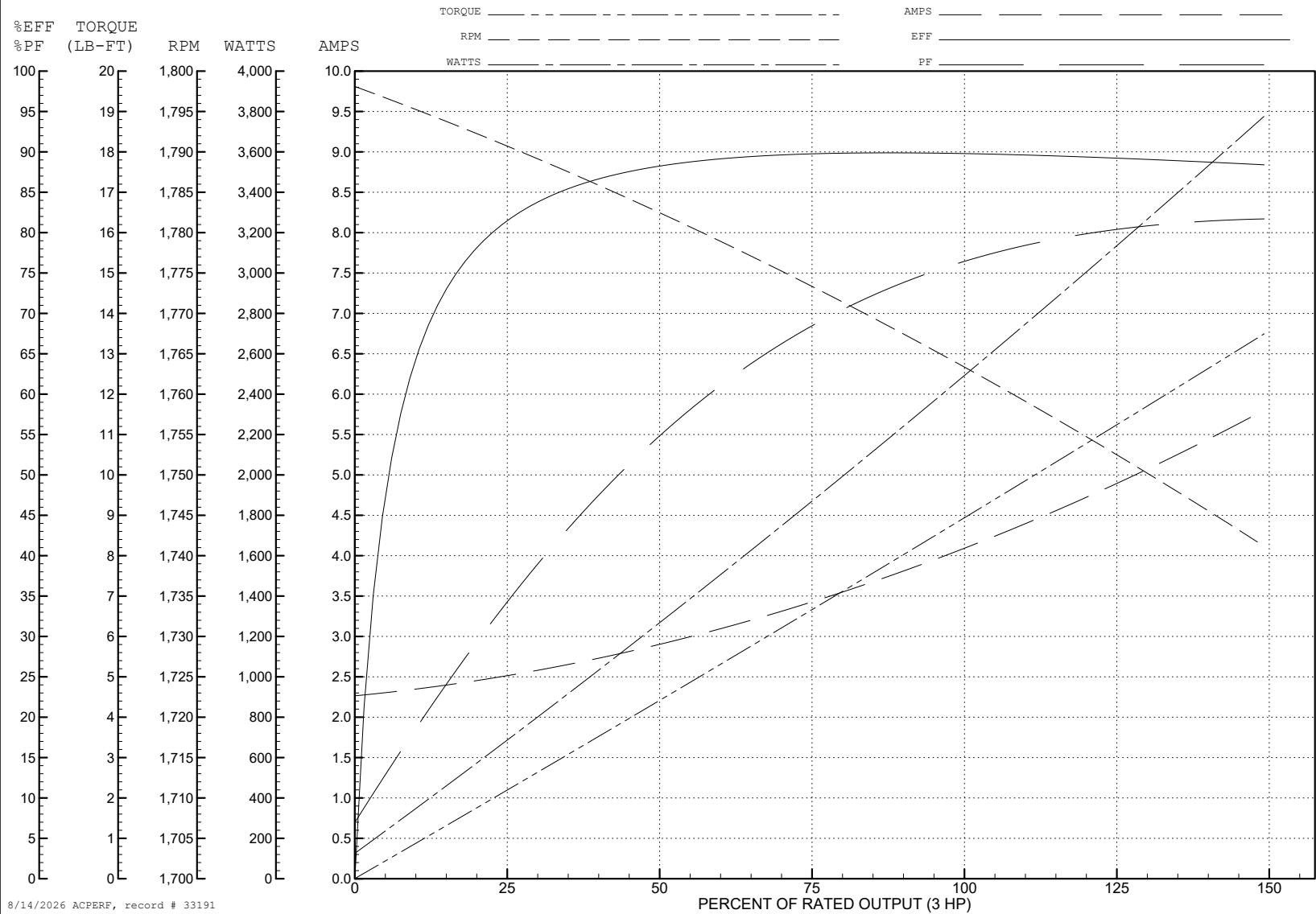
ABB Motors and Mechanical Inc.

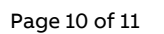
WINDING # 36WGS266

Typical performance - not guaranteed values.

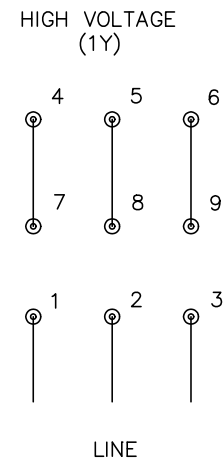
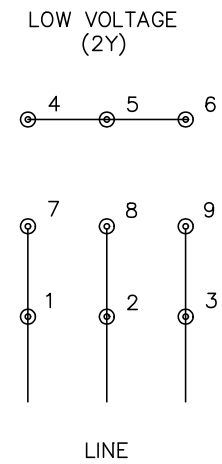
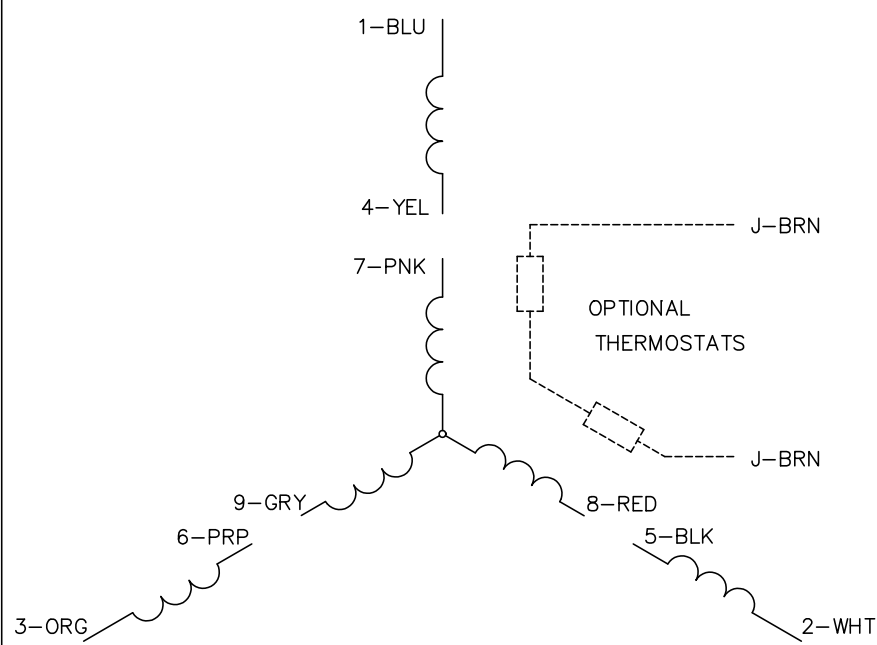
3 HP 3 PH 60 HZ 1764 RPM 460 V 3632M

TORQUES (LB-FT): PO=37.6 PU=15.2 LR=21.7 LRA=32.7





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