

ABB BALDOR RELIANCE III

Customer information packet

M1521T

1.5/.67HP, 1725/1140RPM, 3PH, 60HZ, 182T

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	182T
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	1.500 HP @ 60 HZ .670 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	208.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	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 4.400 A @ 208.0 V
Drip Cover	No Drip Cover
Duty Rating	CONT
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	2.8 a
Insulation Class	F

Part Detail

Revision	AC
Type	AC
Mech. spec.	36A001
Base	
Status	PRD/A
Elec. spec.	36WG0450
Layout	36LYA001
Eff. date	05-20-2025
CD Diagram	CD0013
Poles	04/06
Leads	6#16
Proprietary	False
Created date	01-01-0001

Inverter Code	Not Inverter
KVA Code	H
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	6 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3623M
Mounting Arrangement	F1
Number of Poles	4 6
Overall Length	15.17 IN
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
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	1140 rpm 1725 rpm
Speed Code	2S-2W-VT
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP1256L									
CAT.NO.	M1521T								
SPEC.	36A01-450								
HP	1.5/.67								
VOLTS	208-230								
AMP	4.4/2.8								
RPM	1725/1140								
FRAME	182T		HZ	60			PH	3	
SER.F.	1.15	CODE	H	DES	-	CLASS	F		
NEMA-NOM-EFF		PF							
RATING	40C AMB-CONT								
CC									
DE	6206		ODE	6205					
ENCL	TEFC	SN							

Accessories

Part number	Description	Multiplier
36-3301	C FACE KIT	A8
36EP1304A62SP	FLANGE MTD ENDPLATE 182-4TD -ENCL (LESS	A8

AC Induction Motor Performance Data

Record # 61294

Typical performance - not guaranteed values

Winding: 36WG0450-R002			Type: 3623M		Enclosure: TEFC	
Nameplate Data				230 V, 60 Hz: High Speed Connection		
Rated Output (HP)		1.5/.67		Full Load Torque		4.6 LB-FT
Volts		208-230		Start Configuration		direct on line
Full Load Amps		4.4/2.8		Breakdown Torque		16 LB-FT
R.P.M.		1725/1140		Pull-up Torque		9 LB-FT
Hz		60 Phase 3		Locked-rotor Torque		14 LB-FT
NEMA Design Code		- KVA Code H		Starting Current		24.5 A
Service Factor (S.F.)		1.15		No-load Current		2 A
NEMA Nom. Eff.		0 Power Factor 0		Line-line Res. @ 25°C		5.04 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		28°C
S.F. Amps				Temp. Rise @ S.F. Load		35°C
				Locked-rotor Power Factor		73.7
				Rotor inertia		0.216 LB-FT2

Load Characteristics 230 V, 60 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	50	72	82	87	88	89	88
Efficiency	67	76.8	79	78.7	76.9	73.9	77.6
Speed	1779	1760	1739	1715	1687	1653	1698
Line amperes	2.2	2.6	3.3	4.1	5.1	6.2	4.7

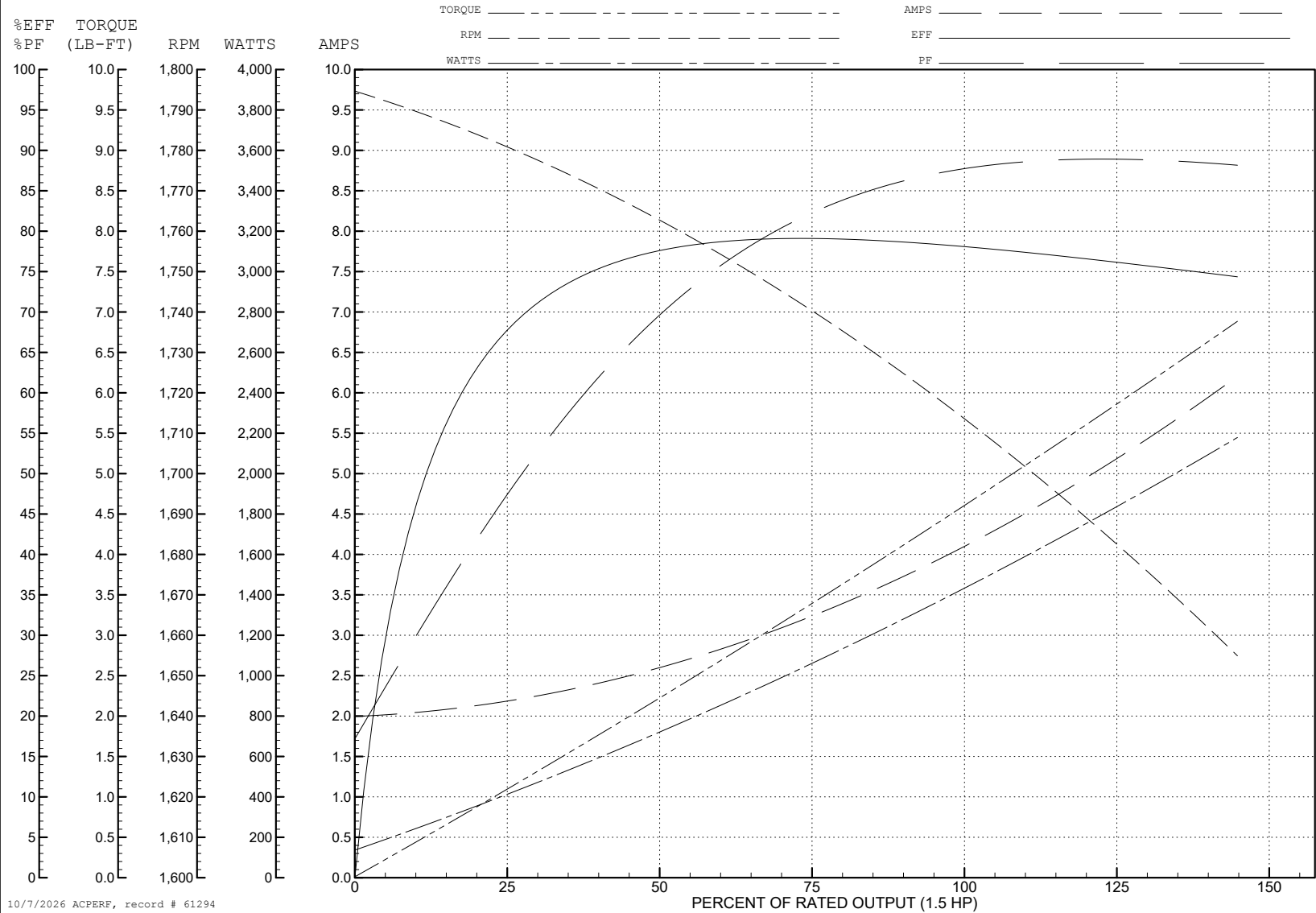
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WINDING # 36WG0450

Typical performance - not guaranteed values.

1.5 HP 3 PH 60 HZ 1715 RPM 230 V 3623M

TORQUES (LB-FT): PO=16 PU=9 LR=14 LRA=24.5



AC Induction Motor Performance Data

Record # 61295

Typical performance - not guaranteed values

Winding: 36WG0450-R002			Type: 3623M		Enclosure: TEFC	
Nameplate Data			230 V, 60 Hz: Low Speed Connection			
Rated Output (HP)	1.5/.67		Full Load Torque	3 LB-FT		
Volts	208-230		Start Configuration	direct on line		
Full Load Amps	4.4/2.8		Breakdown Torque	10 LB-FT		
R.P.M.	1725/1140		Pull-up Torque	5.5 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque	7 LB-FT	
NEMA Design Code	- KVA Code		H	Starting Current	13 A	
Service Factor (S.F.)	1.15			No-load Current	2.2 A	
NEMA Nom. Eff.	0	Power Factor	0	Line-line Res. @ 25°C	8.76 Ω	
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	26°C	
S.F. Amps				Temp. Rise @ S.F. Load	29°C	
				Locked-rotor Power Factor	72.7	
				Rotor inertia	0.216 LB-FT2	

Load Characteristics 230 V, 60 Hz, 0.67 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	31	45	55	64	71	76	68
Efficiency	46.1	61.5	68.4	71.5	72.7	72.7	72.2
Speed	1190	1181	1173	1163	1152	1140	1156
Line amperes	2.2	2.3	2.5	2.7	3	3.3	2.88

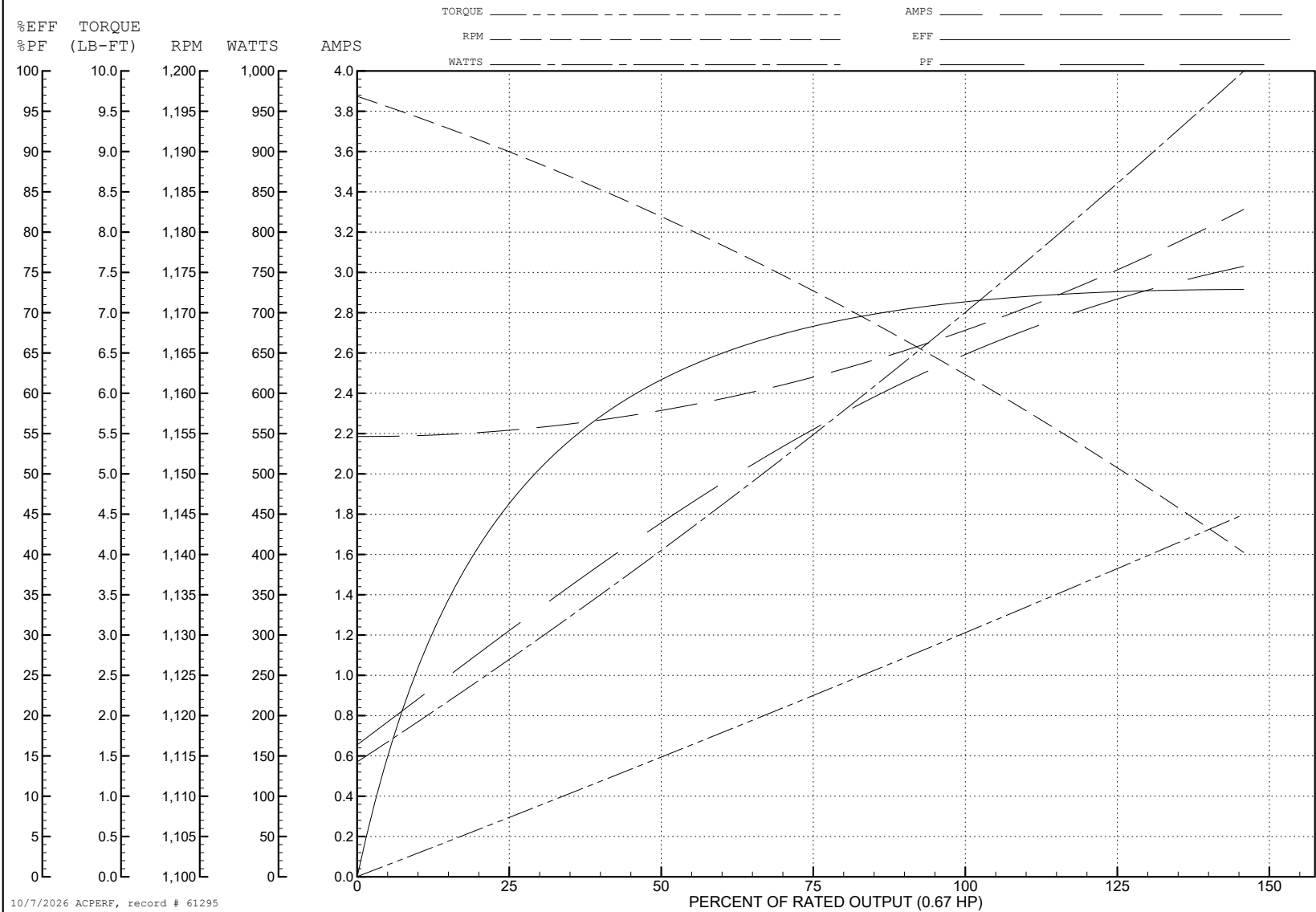
ABB Motors and Mechanical Inc.

WINDING # 36WG0450

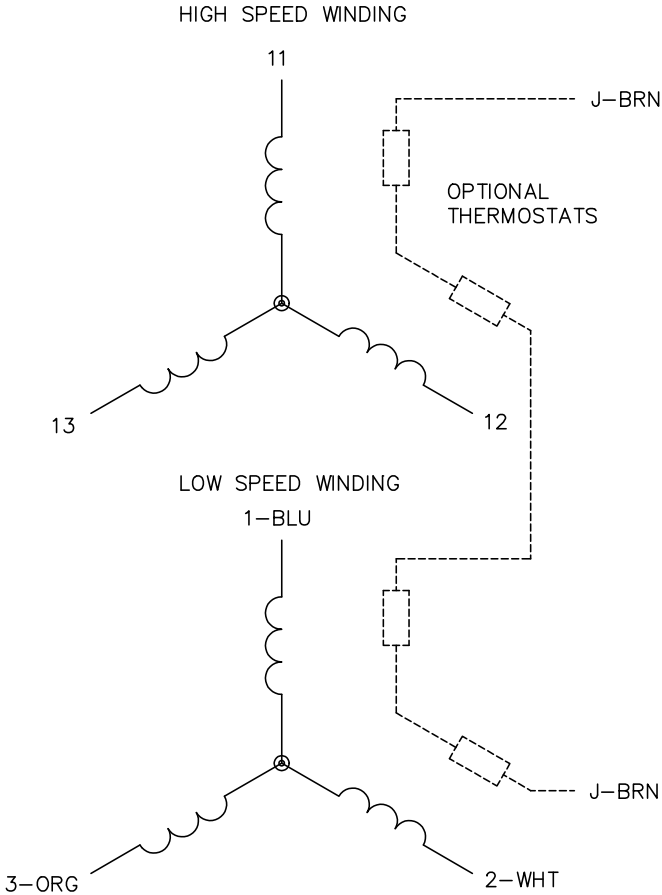
0.67 HP 3 PH 60 HZ 1163 RPM 230 V 3623M

Typical performance - not guaranteed values.

TORQUES (LB-FT) : PO=10 PU=5.5 LR=7 LRA=13



CD0013



LOW SPEED

11 12 13

1 2 3

LINE

HIGH SPEED

1 2 3

11 12 13

LINE

- 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 VARY.
 4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS

REV. LTR: D

BY: JLP

REVISED: 01/22/99 8:50

TDR: 0171435

CD0013

FILE: AAA00005143

MDL: -

MTL: -

BALDOR ELECTRIC Co.

3PH, SV, 6 LEADS, 2-SPEED 2-WINDING

CD0013