

ABB BALDOR RELIANCE III

Customer information packet

M1205T

1.5/.38HP, 1755/870RPM, 3PH, 60HZ, 145T, 3524

Class - None

Division - Not Applicable

Specifications

Enclosure	OPEN
Frame	145T
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 .380 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	UR CSA
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	2.600 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	1.2 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	L

Part Detail

Revision	E
Type	AC
Mech. spec.	35BB001
Base	
Status	PRD/A
Elec. spec.	35WGG352
Layout	35LYBB001
Eff. date	10-17-2024
CD Diagram	CD0032
Poles	04/08
Leads	6#18
Proprietary	False
Created date	02-23-2023

Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	6 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3524M
Mounting Arrangement	F1
Number of Poles	4 8
Overall Length	12.13 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	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1755 rpm 870 rpm
Speed Code	2S-1W-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

NP1256L										
CAT.NO.	M1205T									
SPEC.	35BB001G352									
HP	1.5/.38									
VOLTS	460									
AMP	2.6/1.2									
RPM	1755/870									
FRAME	145T			HZ		60		PH		3
SER.F.	1.15	CODE		L	DES		B	CLASS		F
NEMA-NOM-EFF			PF							
RATING	40C AMB-CONT									
CC										
DE	6205			ODE		6203				
ENCL	OPEN	SN								
	SFA 2.82									

Accessories

Part number	Description	Multiplier
35-8764	C FACE KIT	A8
35EP1604A01SP	D-FLANGE KIT	

AC Induction Motor Performance Data

Record # 87849

Typical performance - not guaranteed values

Winding: 35WGG352-R001			Type: 3524M		Enclosure: OPEN		
Nameplate Data			460 V, 60 Hz: High Speed Connection				
Rated Output (HP)		1.5/.38	Full Load Torque		4.42 LB-FT		
Volts		460	Start Configuration		direct on line		
Full Load Amps		2.6/1.2	Breakdown Torque		17.62 LB-FT		
R.P.M.		1755/870	Pull-up Torque		8.99 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		10.99 LB-FT	
NEMA Design Code		B	KVA Code	L	Starting Current		17.33 A
Service Factor (S.F.)		1.15		No-load Current		1.88 A	
NEMA Nom. Eff.		0	Power Factor	0	Line-line Res. @ 25°C		16.5 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		45°C	
S.F. Amps				Temp. Rise @ S.F. Load		52°C	
				Locked-rotor Power Factor		82.3	
				Rotor inertia		0.173 lb-ft²	

Load Characteristics 460 V, 60 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	29	45	59	67	74	79	71
Efficiency	64.7	75.5	78.9	78.9	77.8	75.7	78.2
Speed	1791	1781	1770	1757	1743	1726	1749
Line amperes	1.94	2.07	2.28	2.6	2.96	3.35	2.82

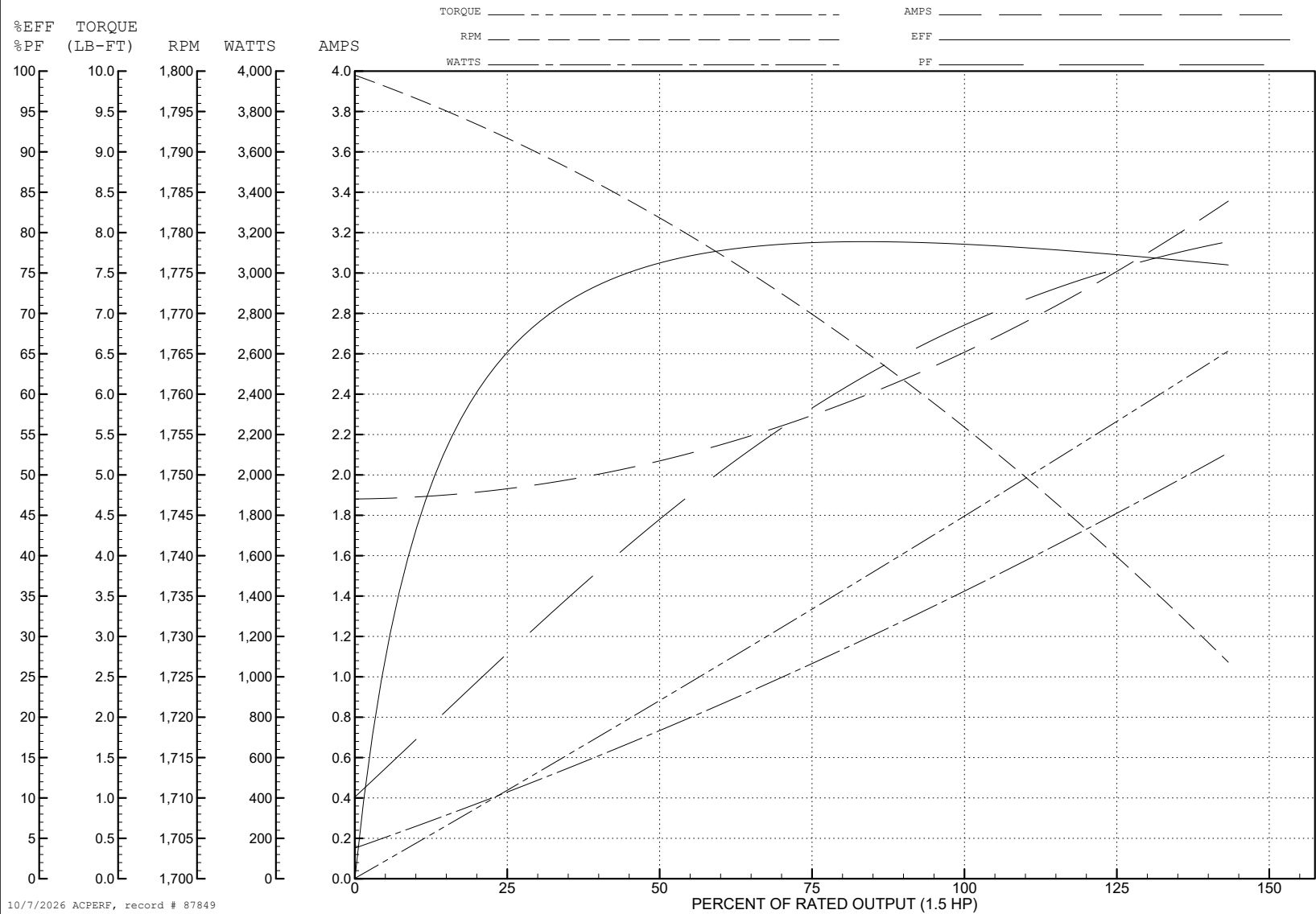
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WINDING # 35WGG352

Typical performance - not guaranteed values.

1.5 HP 3 PH 60 HZ 1757 RPM 460 V 3524M

TORQUES (LB-FT) : PO=17.62 PU=8.99 LR=10.99 LRA=17.33



AC Induction Motor Performance Data

Record # 87850

Typical performance - not guaranteed values

Winding: 35WGG352-R001			Type: 3524M		Enclosure: OPEN			
Nameplate Data			460 V, 60 Hz: Low Speed Connection					
Rated Output (HP)		1.5/.38	Full Load Torque		2.28 LB-FT			
Volts		460	Start Configuration		direct on line			
Full Load Amps		2.6/1.2	Breakdown Torque		8.37 LB-FT			
R.P.M.		1755/870	Pull-up Torque		4.16 LB-FT			
Hz	60	Phase	3	Locked-rotor Torque		5.51 LB-FT		
NEMA Design Code		B	KVA Code	L	Starting Current		4.33 A	
Service Factor (S.F.)		1.15	No-load Current		1.05 A			
NEMA Nom. Eff.		0	Power Factor		0	Line-line Res. @ 25°C		65.9 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load				
				Locked-rotor Power Factor		82.3		
				Rotor inertia		0.173 lb-ft²		

Load Characteristics 460 V, 60 Hz, 0.38 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	25	34	42	50	58	64	55
Efficiency	34	49.9	58.6	63.6	66.3	67.6	65.2
Speed	893.8	888.5	882.7	876.5	869.7	862.2	872
Line amperes	1.04	1.05	1.07	1.11	1.16	1.23	1.14

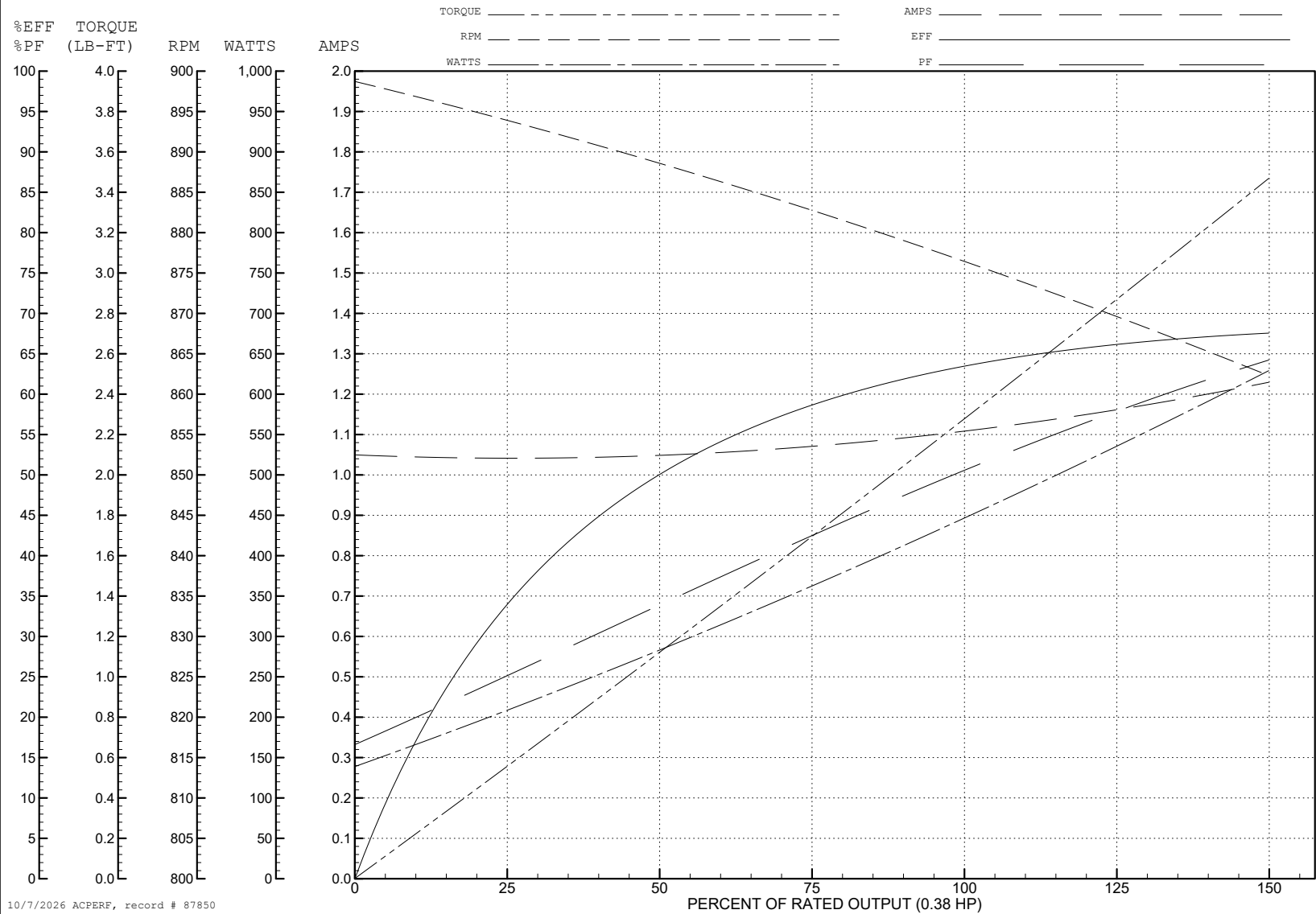
ABB Motors and Mechanical Inc.

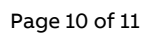
WINDING # 35WGG352

Typical performance - not guaranteed values.

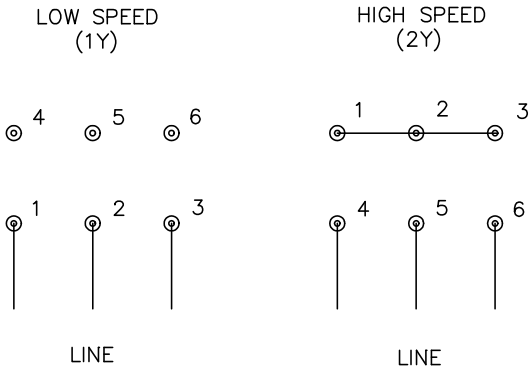
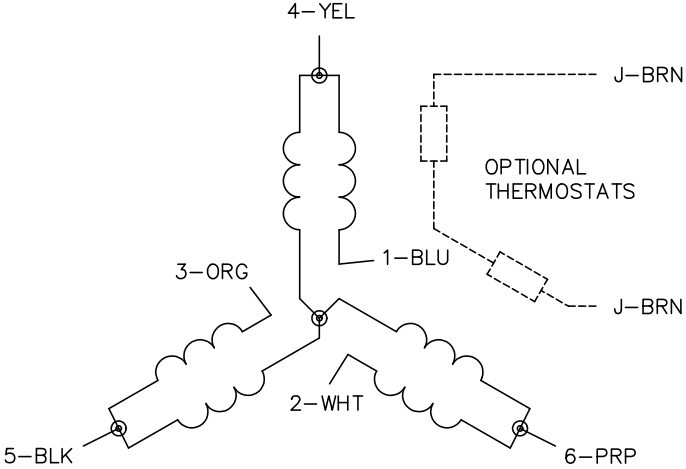
0.38 HP 3 PH 60 HZ 876.5 RPM 460 V 3524M

TORQUES (LB-FT) : PO=8.37 PU=4.16 LR=5.51 LRA=4.33





CD0032



- 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: 01/22/99 8:27	TDR: 0171435
CD0032		FILE: AAA00005145	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, SV, 6 LEADS, 2-SPEED 1-WINDING VARIABLE TORQUE

CD0032