BALDOR • RELIANCE

Customer information packet

M1004T

1-.25HP, 1720-860RPM, 3PH, 60HZ, 143T, 3520M
Class - None
Division - Not Applicable

10/7/2024 1:11:43 AM

Specifications

Enclosure	OPEN
Frame	143T
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	.250 HP @ 60 HZ
	1.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	900 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	208.0 V @ 60 HZ
Agency Approvals	CSA
	UR
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	3.150 A @ 208.0 V
	1.530 A @ 230.0 V
Design Code	-
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	1.5 a
Insulation Class	F

Part detail

Revision	C
Type	AC
Mech. spec.	35BB001
Base	
Status	PRD/A
Elec. spec.	35WGG362
Layout	35LYBB001
Eff. date	07-02-2024
CD Diagram	CD0032
Poles	04/08
Leads	6#18
Proprietary	False
Created date	02-23-2023

Inverter Code	Not Inverter
KVA Code	J
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	3520M
Mounting Arrangement	F1
Number of Poles	4
	8
Overall Length	11.13 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	1720 rpm
	860 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

Nameplate

NP1256L											
CAT.NO.	M1004T										
SPEC.	35BB001G362										
HP	1-.25										
VOLTS	208-230										
AMP	3.15-1.53										
RPM	1720-860										
FRAME	143T		**HZ**	60			**PH**	3			
SER.F.	1.15	**CODE**	J	**DES**	-	**CLASS**	F				
NEMA-NOM-EFF		**PF**									
RATING	40C AMB-CONT										
CC											
DE	6205		**ODE**	6203							
ENCL	OPEN	**SN**									
	SFA 3.8-3.54										

Accessories

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

AC Induction Motor Performance Data
Record # 87869
Typical performance - not guaranteed values

Winding: 35WGG362-R001	**Type:** 3520M	**Enclosure:** OPEN

Nameplate Data			
Rated Output (HP)			1/.25
Volts			208-230
Full Load Amps			3.15/1.53
R.P.M.			1720/860
Hz	60	**Phase**	3
NEMA Design Code	-	**KVA Code**	J
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	0	**Power Factor**	0
Rating - Duty			40C AMB-CONT
S.F. Amps			

230 V, 60 Hz: High Speed Connection	
Full Load Torque	2.97 LB-FT
Start Configuration	direct on line
Breakdown Torque	9.38 LB-FT
Pull-up Torque	7.48 LB-FT
Locked-rotor Torque	7.98 LB-FT
Starting Current	18.56 A
No-load Current	1.79 A
Line-line Res. @ 25ºC	6.75 Ω
Temp. Rise @ Rated Load	27°C
Temp. Rise @ S.F. Load	33°C
Locked-rotor Power Factor	82.9
Rotor inertia	0.144 lb-ft²

Load Characteristics 230 V, 60 Hz, 1 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	34	54	65	74	78	81	76
Efficiency	71.5	78.3	79.4	78	75.5	72.7	76.5
Speed	1780	1762	1742	1719	1695	1668	1705
Line amperes	1.97	2.23	2.69	3.15	3.8	4.43	3.54

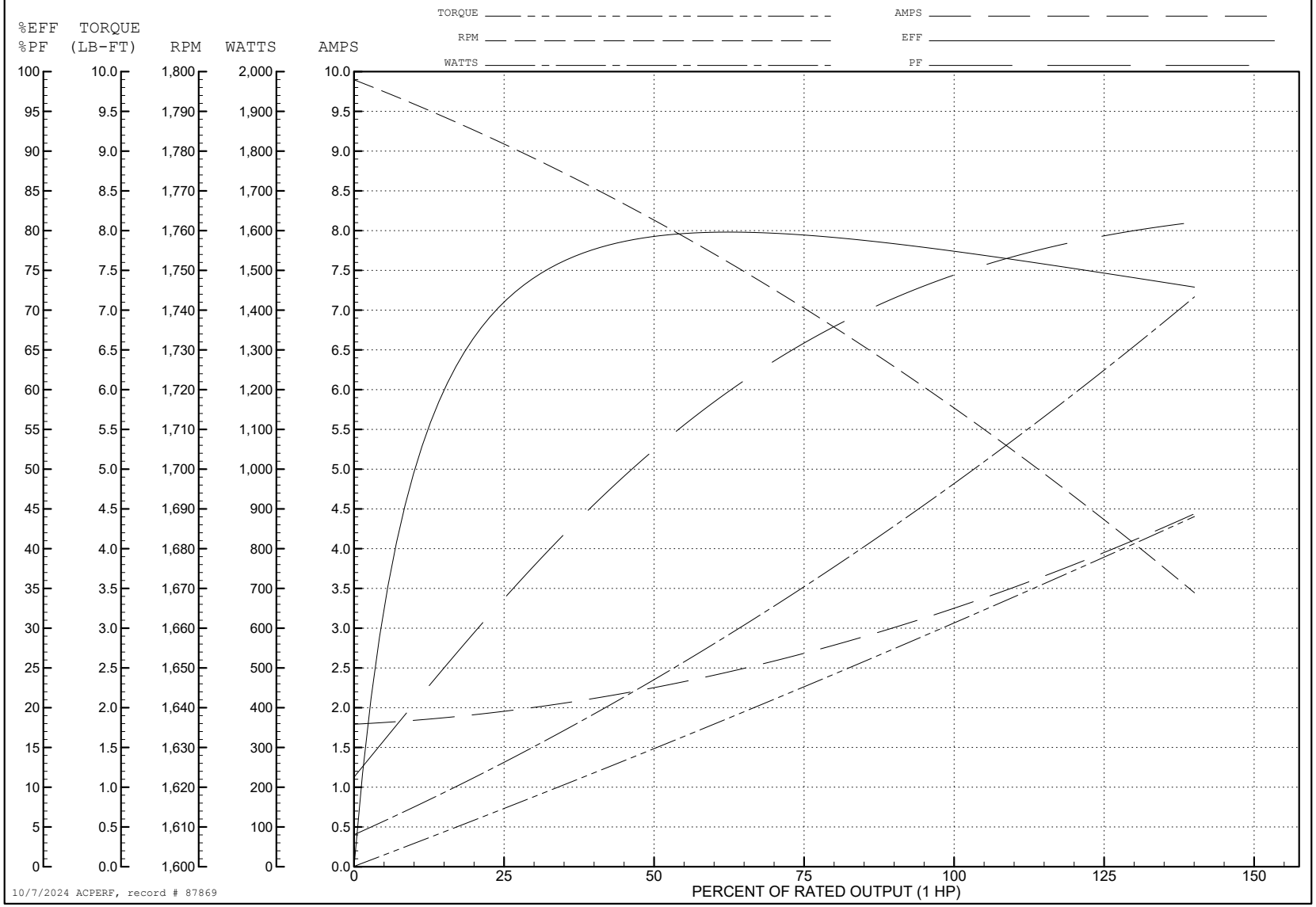
ABB Motors and Mechanical Inc.

WINDING # 35WGG362

1 HP 3 PH 60 HZ 1719 RPM 230 V 3520M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=9.38 PU=7.48 LR=7.98 LRA=18.56



AC Induction Motor Performance Data
Record # 87870
Typical performance - not guaranteed values

Winding: 35WGG362-R001	**Type:** 3520M	**Enclosure:** OPEN

Nameplate Data			
Rated Output (HP)			1/.25
Volts			208-230
Full Load Amps			3.15/1.53
R.P.M.			1720/860
Hz	60	**Phase**	3
NEMA Design Code	-	**KVA Code**	J
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	0	**Power Factor**	0
Rating - Duty			40C AMB-CONT

230 V, 60 Hz: Low Speed Connection	
Full Load Torque	1.52 LB-FT
Start Configuration	direct on line
Breakdown Torque	4.91 LB-FT
Pull-up Torque	2.56 LB-FT
Locked-rotor Torque	3.59 LB-FT
Starting Current	4.9 A
No-load Current	1.23 A
Line-line Res. @ 25ºC	27 Ω
Temp. Rise @ Rated Load	
Locked-rotor Power Factor	82.9
Rotor inertia	0.144 lb-ft²

Load Characteristics 230 V, 60 Hz, 0.25 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	27	36	46	54	62	68	59
Efficiency	35.9	51.7	59.9	64.2	66.1	66.5	65.3
Speed	890.9	883.2	874.9	865.7	855.4	843.6	860
Line amperes	1.23	1.25	1.28	1.34	1.43	1.54	1.39

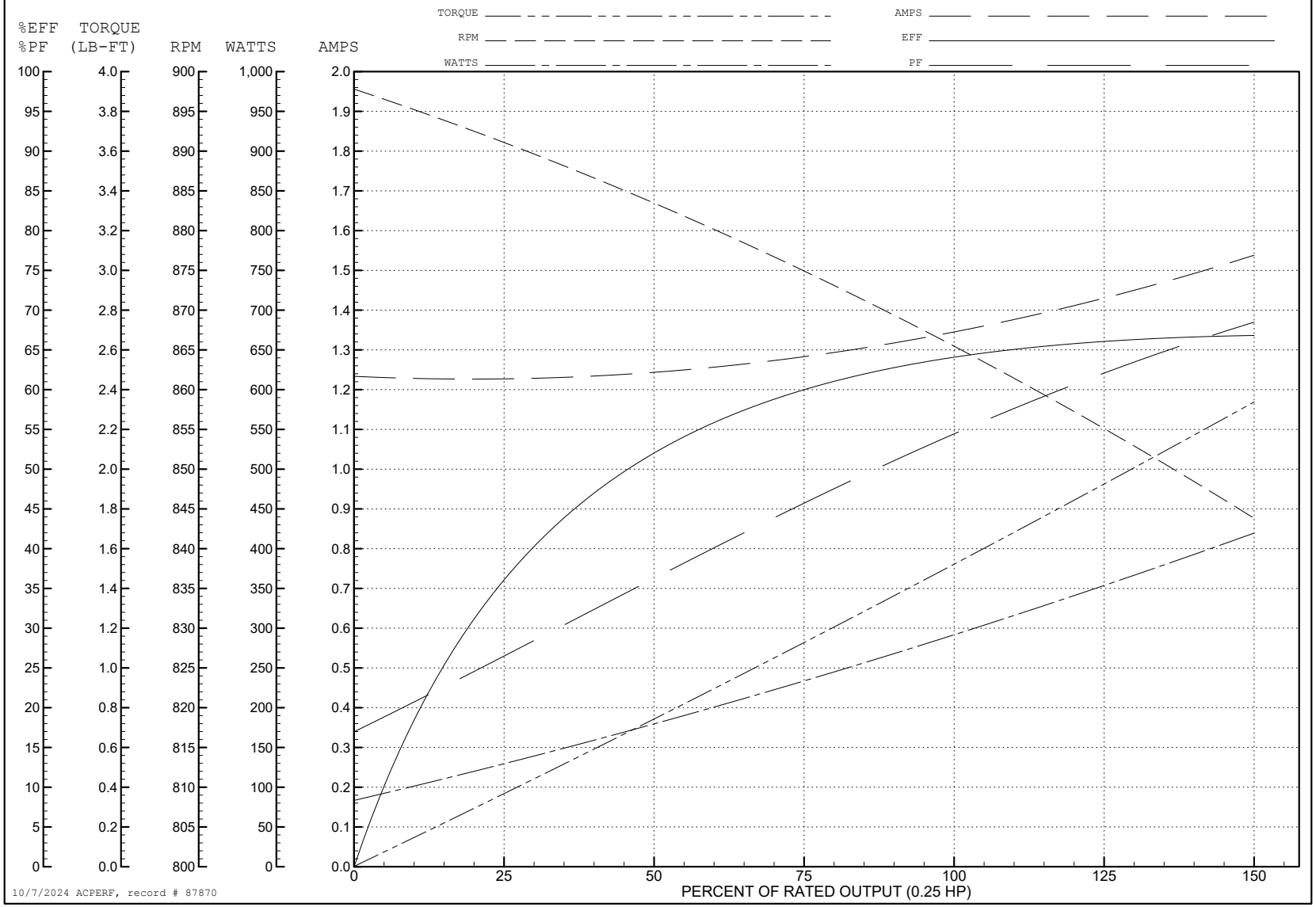
ABB Motors and Mechanical Inc.

WINDING # 35WGG362

0.25 HP 3 PH 60 HZ 865.7 RPM 230 V 3520M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=4.91 PU=2.56 LR=3.59 LRA=4.9



AC Induction Motor Performance Data
Record # 87871
Typical performance - not guaranteed values

Winding: 35WGG362-R002	**Type:** 3520M	**Enclosure:** TEFC

Nameplate Data			
Rated Output (HP)			1/.25
Volts			208-230
Full Load Amps			3.15/1.53
R.P.M.			1720/860
Hz	60	**Phase**	3
NEMA Design Code	-	**KVA Code**	J
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	0	**Power Factor**	0
Rating - Duty			40C AMB-CONT
S.F. Amps			

230 V, 60 Hz: High Speed Connection	
Full Load Torque	2.97 LB-FT
Start Configuration	direct on line
Breakdown Torque	9.38 LB-FT
Pull-up Torque	7.48 LB-FT
Locked-rotor Torque	7.98 LB-FT
Starting Current	18.56 A
No-load Current	1.79 A
Line-line Res. @ 25ºC	6.75 Ω
Temp. Rise @ Rated Load	27°C
Temp. Rise @ S.F. Load	33°C
Locked-rotor Power Factor	82.9
Rotor inertia	0.144 lb-ft²

Load Characteristics 230 V, 60 Hz, 1 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	34	54	65	74	78	81	76
Efficiency	71.5	78.3	79.4	78	75.5	72.7	76.5
Speed	1780	1762	1742	1719	1695	1668	1705
Line amperes	1.97	2.23	2.69	3.15	3.8	4.43	3.54

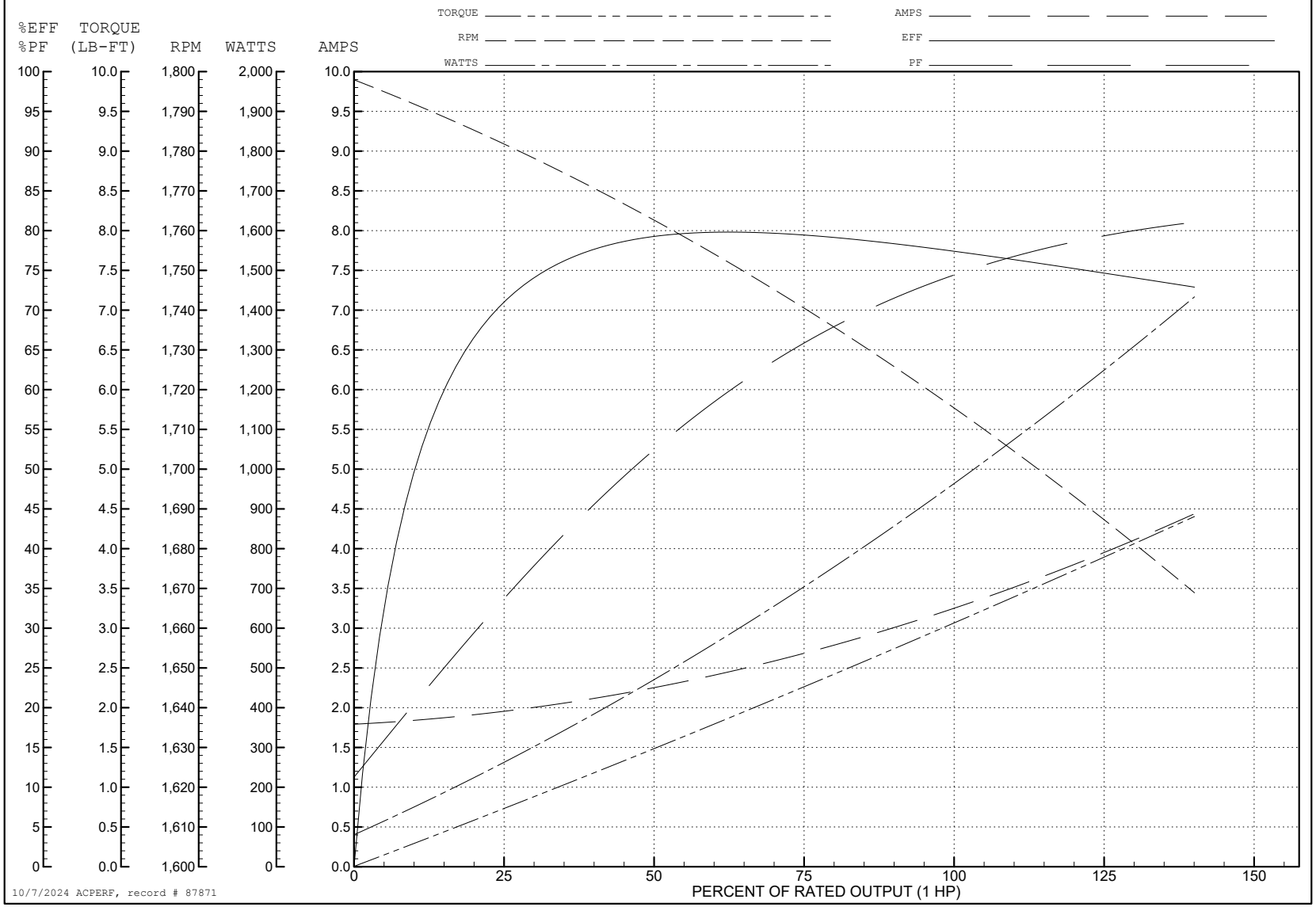
ABB Motors and Mechanical Inc.

WINDING # 35WGG362

1 HP 3 PH 60 HZ 1719 RPM 230 V 3520M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=9.38 PU=7.48 LR=7.98 LRA=18.56



AC Induction Motor Performance Data
Record # 87873
Typical performance - not guaranteed values

Winding: 35WGG362-R002	**Type:** 3520M	**Enclosure:** TEFC

Nameplate Data			
Rated Output (HP)			1/.25
Volts			208-230
Full Load Amps			3.15/1.53
R.P.M.			1720/860
Hz	60	**Phase**	3
NEMA Design Code	-	**KVA Code**	J
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	0	**Power Factor**	0
Rating - Duty			40C AMB-CONT

230 V, 60 Hz: Low Speed Connection	
Full Load Torque	1.52 LB-FT
Start Configuration	direct on line
Breakdown Torque	4.91 LB-FT
Pull-up Torque	2.56 LB-FT
Locked-rotor Torque	3.59 LB-FT
Starting Current	4.9 A
No-load Current	1.23 A
Line-line Res. @ 25ºC	27 Ω
Temp. Rise @ Rated Load	
Locked-rotor Power Factor	76.6
Rotor inertia	0.144 lb-ft²

Load Characteristics 230 V, 60 Hz, 0.25 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	27	36	46	54	62	68	59
Efficiency	35.9	51.7	59.9	64.2	66.1	66.5	65.3
Speed	890.9	883.2	874.9	865.7	855.4	843.6	860
Line amperes	1.23	1.25	1.28	1.34	1.43	1.54	1.39

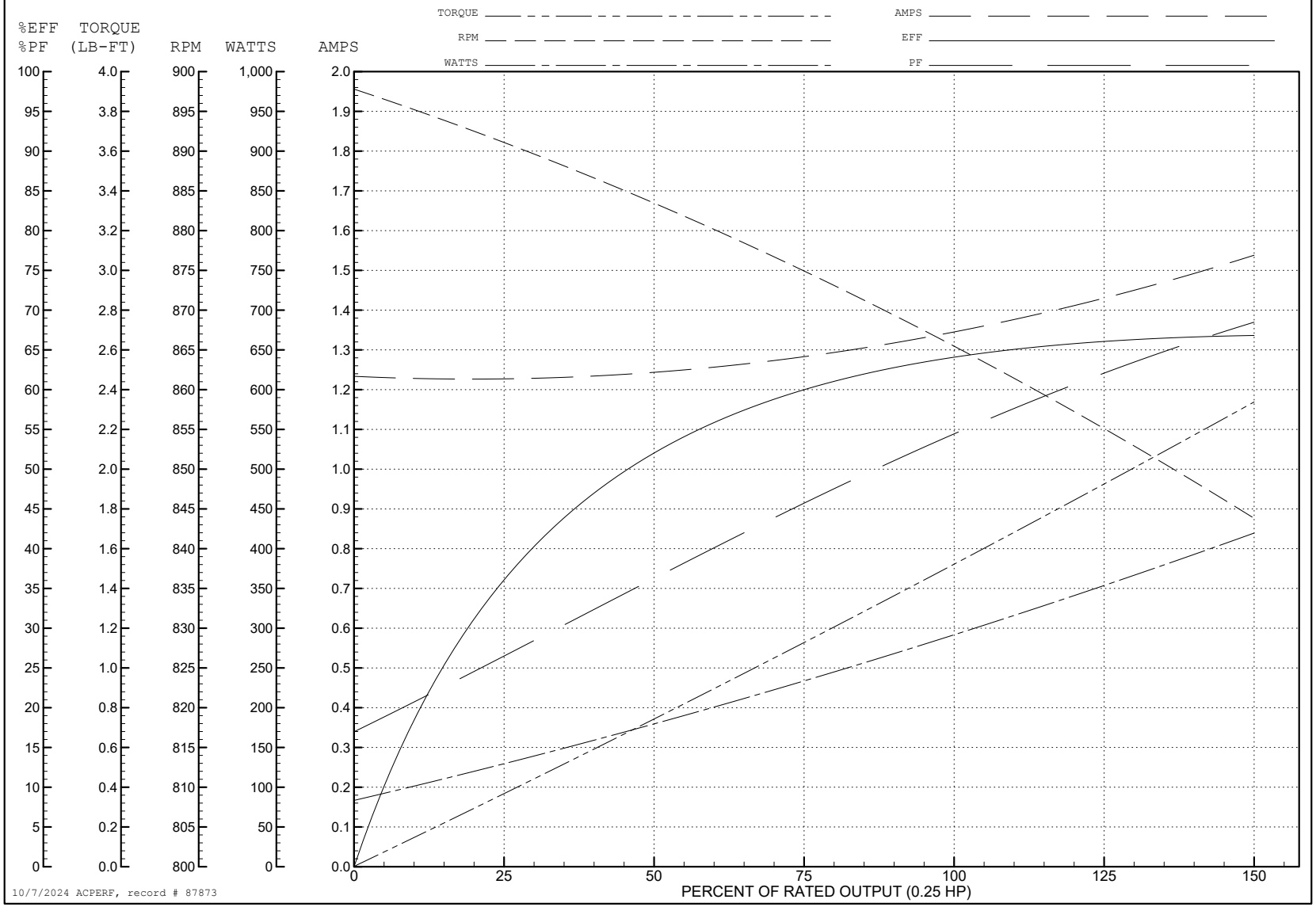
ABB Motors and Mechanical Inc.

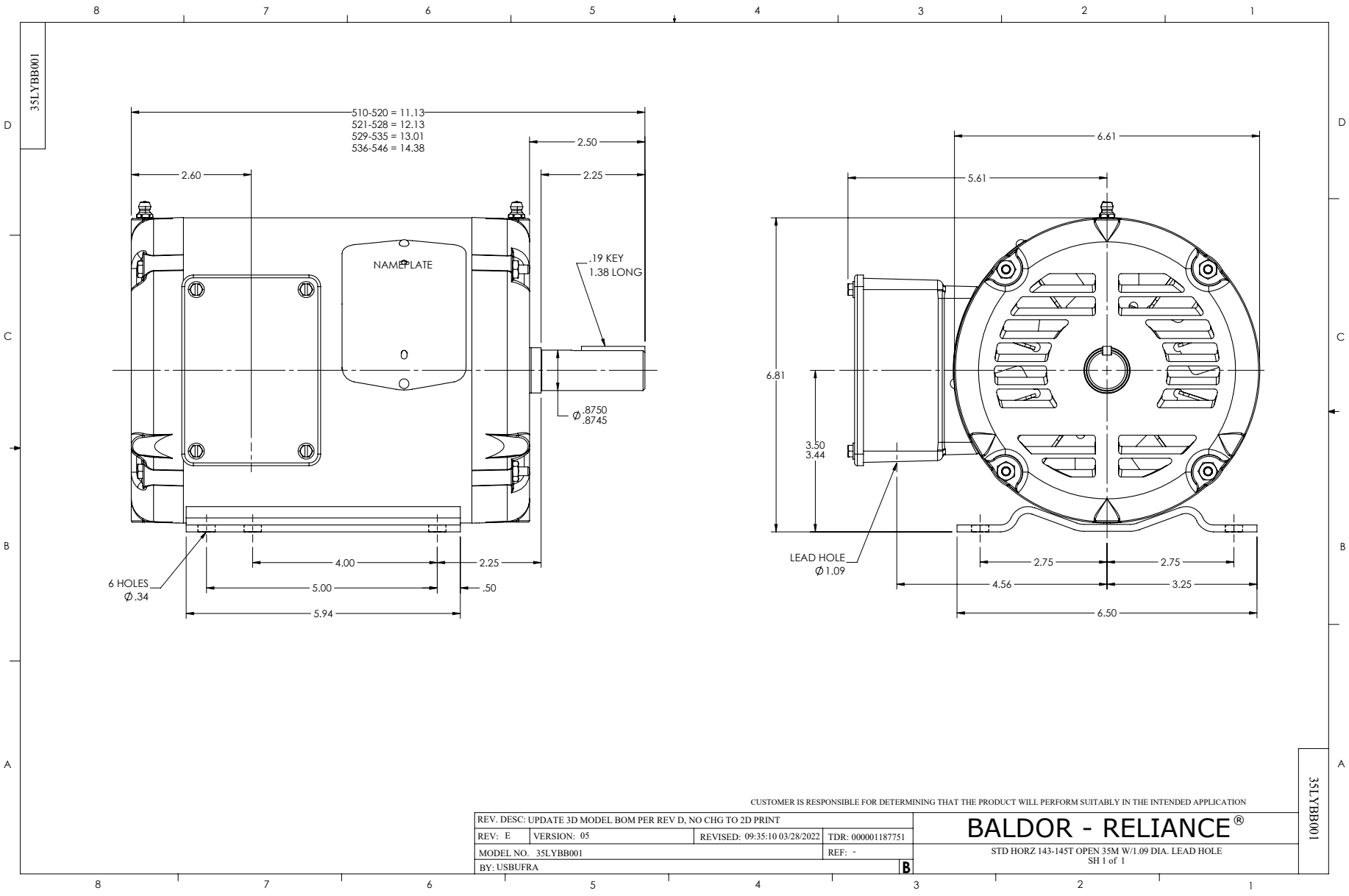
WINDING # 35WGG362

0.25 HP 3 PH 60 HZ 865.7 RPM 230 V 3520M

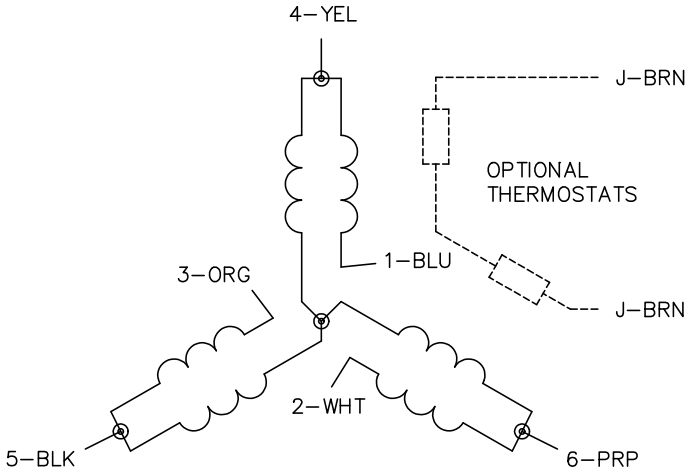
Typical performance - not guaranteed values.

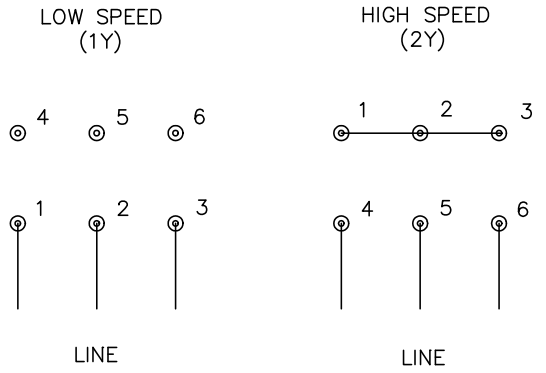
TORQUES(LB-FT): PO=4.91 PU=2.56 LR=3.59 LRA=4.9




35LYBB001
510-520 = 11.13
521-528 = 12.13
529-535 = 13.01
536-546 = 14.38
2.50
2.60
2.25
NAMEPLATE
.19 KEY
1.38 LONG
Ø .8750
.8745
6 HOLES
Ø .34
4.00
2.25
5.00
.50
5.94
6.61
5.61
6.81
3.50
3.44
LEAD HOLE
Ø 1.09
2.75
2.75
4.56
3.25
6.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: UPDATE 3D MODEL BOM PER REV D, NO CHG TO 2D PRINT
REV: E
VERSION: 05
REVISED: 09:35:10 03/28/2022
TDR: 000001187751
MODEL NO. 35LYBB001
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
STD HORZ 143-145T OPEN 35M W/1.09 DIA. LEAD HOLE
SH 1 of 1
35LYBB001

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			BALDOR ELECTRIC Co.
REV. LTR: E	BY: JLP	REVISED: 01/22/99 8:27	TDR: 0171435
CD0032		FILE: AAA00005145	MDL: –
		MTL: –	3PH, SV, 6 LEADS, 2–SPEED 1–WINDING VARIABLE TORQUE

CD0032