



Customer information packet

VEM3558

2HP, 1755RPM, 3PH, 60HZ, 56C, 3528M, TEFC, F1, N

ELECTRIC MOTOR WHOLESALE.COM

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	56C
Frame Material	Steel
Frequency	60.00 Hz
Output @ Frequency	2.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 V @ 60 HZ
XP Class and Group	None
XP Division	Not Applicable
Agency Approvals	CSA CSA EEV UR
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	2.900 A @ 460.0 V 5.800 A @ 230.0 V 6.600 A @ 208.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater

Part detail

Revision	R
Type	AC
Mech. spec.	35J302
Base	
Status	PRD/A
Elec. spec.	35WGN909
Layout	35LYJ302
Eff. date	12-20-2019
CD Diagram	CD0005
Poles	04
Leads	9#18 Y
Proprietary	False
Created date	06-20-2013

High Voltage Full Load Amps	2.9 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	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	3528M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	13.23 IN
Power Factor	75
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
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	1755 rpm
Speed Code	Single Speed
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

NP3441LUA

CAT.NO.	VEM3558						
SPEC	35J302N909G1						
HP	2						
VOLTS	230/460						
AMPS	5.8/2.9						
RPM	1755						
FRAME	56C		HZ	60		PH	3
SF	1.15	CODE	L	DES	B	CLASS	F
NEMA NOM. EFF	86.5	PF	75				
RATING	40C AMB-CONT						
CC	010A		USABLE AT 208V				6.6
ENCL	TEFC	SER					
DE	6205	ODE	6203				
VPWM INVERTER READY							
CT6-60H(10:1)VT3-60H(20:1							
	50Hz 2HP 190/380V 6.6/3.3A						SF1.0

Parts list

Part number	Description	Quantity
SA265088	SA 35J302N909G1	1.000 ea
RA251792	RA 35J302N909G1	1.000 ea
34FN3002B01	EXTERNAL FAN, PLASTIC, .637/.639 HUB W/	1.000 ea
35CB3007	35 CB CASTING W/.88 DIA. LEAD HOLE	1.000 ea
36GS1000SP	GASKET-CONDUIT BOX, .06 THICK #SV-330 LE	1.000 ea
51XB1016A07	10-16 X 7/16 HXWSSLD SERTYB	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
35EP3122K00	MASTER ODE,203 BRG.,683SH,#26 DRN,FH MTG	1.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
35EP3307F00	MASTER DE,205 BRG.,998SH,#26 DRN	1.000 ea
51XN1032A20	10-32 X 1 1/4 HX WS SL SR	2.000 ea
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 ea
35FH4005A32SP	IEC FH NO GRSR W/3 HOLES - PRIMED	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 ea
35CB4521GX	CONDUIT BOX LID KIT **ORDER INDIV PARTS	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 ea
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 ea
HA7000A04	KEY RETAINER 0.625 DIA SHAFTS	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
MJ1000A02	GREASE, MOBIL POLYREX EM - 124047	0.050 lb
MG1000Y03	MUNSELL 2.53Y 6.70/ 4.60, GLOSS 20,	0.017 ga
HA3100A15	THRUBOLT 10-32 X 8.375	4.000 ea
LC0005E01	CONN.DIA./WARNING LABEL (LC0005/LB1119N)	1.000 ea
NP3441LUA	ALUM SUPER-E VPWM INV READY UL CSA-EEV C	1.000 ea
36PA1000	PKG GRP, PRINT PK1016A06	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 3/19	1.000 ea
FE-0000001	ZRTG FE ASSEMBLY	1.000 ea
PE-0000001	ZRTG PE ASSEMBLY	1.000 ea

AC Induction Motor Performance Data

Record # 53344

Typical performance - not guaranteed values

Winding: 35WGN909-R032		Type: 3528M		Enclosure: TEFC	
Nameplate Data			460 V, 60 Hz: High Voltage Connection		
Rated Output (HP)	2		Full Load Torque	5.99 LB-FT	
Volts	230/460		Start Configuration	direct on line	
Full Load Amps	5.8/2.9		Breakdown Torque	24.9 LB-FT	
R.P.M.	1755		Pull-up Torque	15.9 LB-FT	
Hz	60 Phase	3	Locked-rotor Torque	17.2 LB-FT	
NEMA Design Code	B KVA Code	L	Starting Current	23.9 A	
Service Factor (S.F.)	1.15		No-load Current	1.81 A	
NEMA Nom. Eff.	86.5 Power Factor	75	Line-line Res. @ 25°C	8.02 Ω	
Rating - Duty	40C AMB-CONT		Temp. Rise @ Rated Load	65°C	
S.F. Amps			Temp. Rise @ S.F. Load	77°C	
			Locked-rotor Power Factor	52.4	
			Rotor inertia	0.165 LB-FT ²	

Load Characteristics 460 V, 60 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	33	53	66	74	80	83	78
Efficiency	75.5	84	86.3	86.5	85.8	84.5	86.2
Speed	1790	1779	1769	1756	1743	1728	1748
Line amperes	1.89	2.11	2.46	2.91	3.4	4	3.2

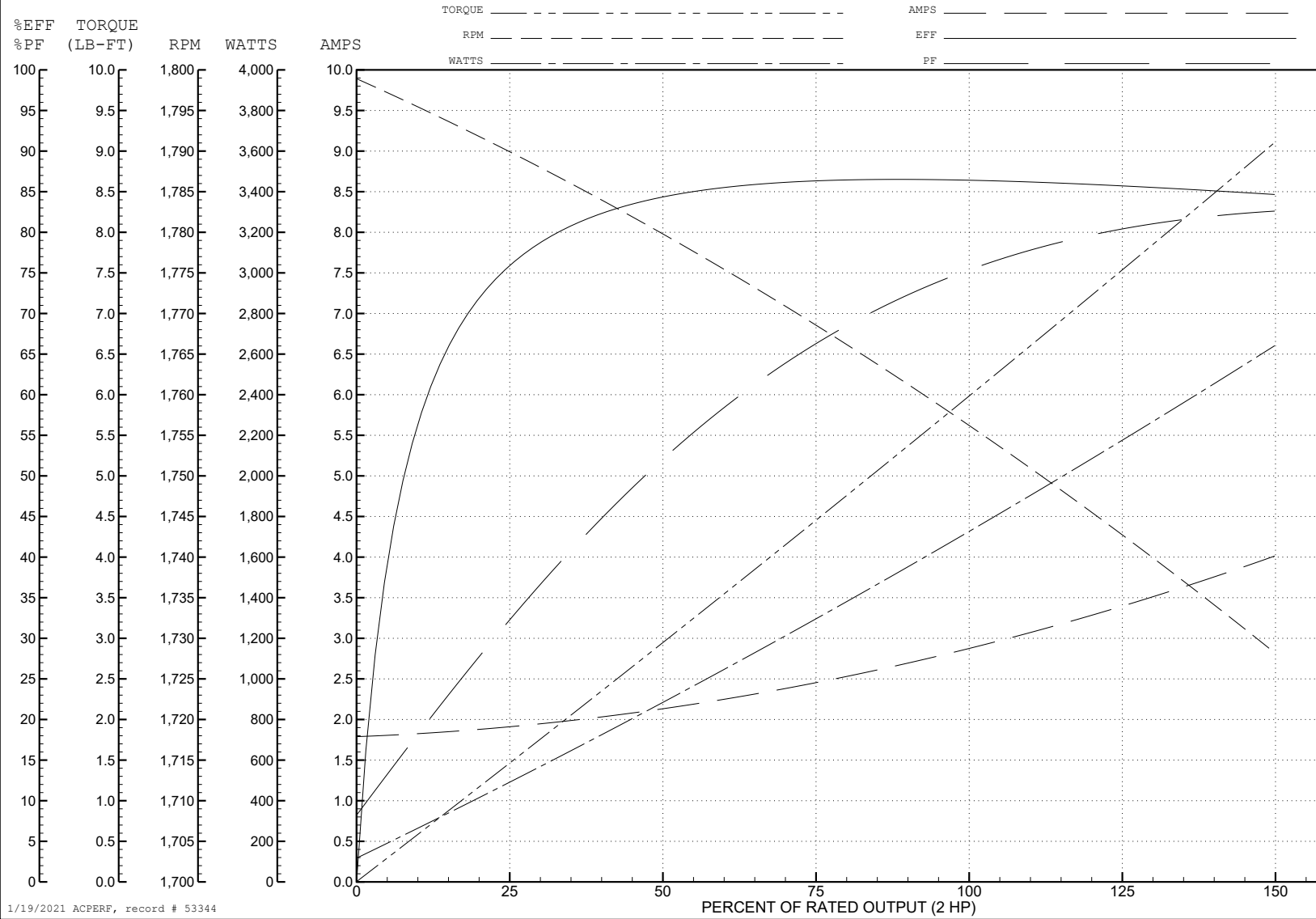
ABB Motors and Mechanical Inc.

WINDING # 35WGN909

Typical performance - not guaranteed values.

2 HP 3 PH 60 HZ 1755 RPM 460 V 3528M

TORQUES (LB-FT): PO=24.9 PU=15.9 LR=17.2 LRA=23.9



1/19/2021 ACPERF, record # 53344

AC Induction Motor Performance Data

Record # 57956

Typical performance - not guaranteed values

Winding: 35WGN909-R032		Type: 3528M	Enclosure: TEFC	
Nameplate Data			230 V, 60 Hz: Low Voltage Connection	
Rated Output (HP)		2	Full Load Torque	5.99 LB-FT
Volts		230/460	Start Configuration	direct on line
Full Load Amps		5.8/2.9	Breakdown Torque	24.9 LB-FT
R.P.M.		1755	Pull-up Torque	15.9 LB-FT
Hz	60 Phase	3	Locked-rotor Torque	17.2 LB-FT
NEMA Design Code	B KVA Code	L	Starting Current	47.8 A
Service Factor (S.F.)		1.15	No-load Current	3.62 A
NEMA Nom. Eff.	86.5 Power Factor	75	Line-line Res. @ 25°C	2 Ω
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load	65°C
S.F. Amps			Temp. Rise @ S.F. Load	77°C
			Locked-rotor Power Factor	52.4
			Rotor inertia	0.165 LB-FT ²

Load Characteristics 230 V, 60 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	33	53	66	74	80	83	78
Efficiency	75.6	84.1	86.4	86.6	85.9	84.6	86.2
Speed	1790	1779	1769	1756	1743	1728	1748
Line amperes	3.78	4.22	4.92	5.82	6.8	8	6.41

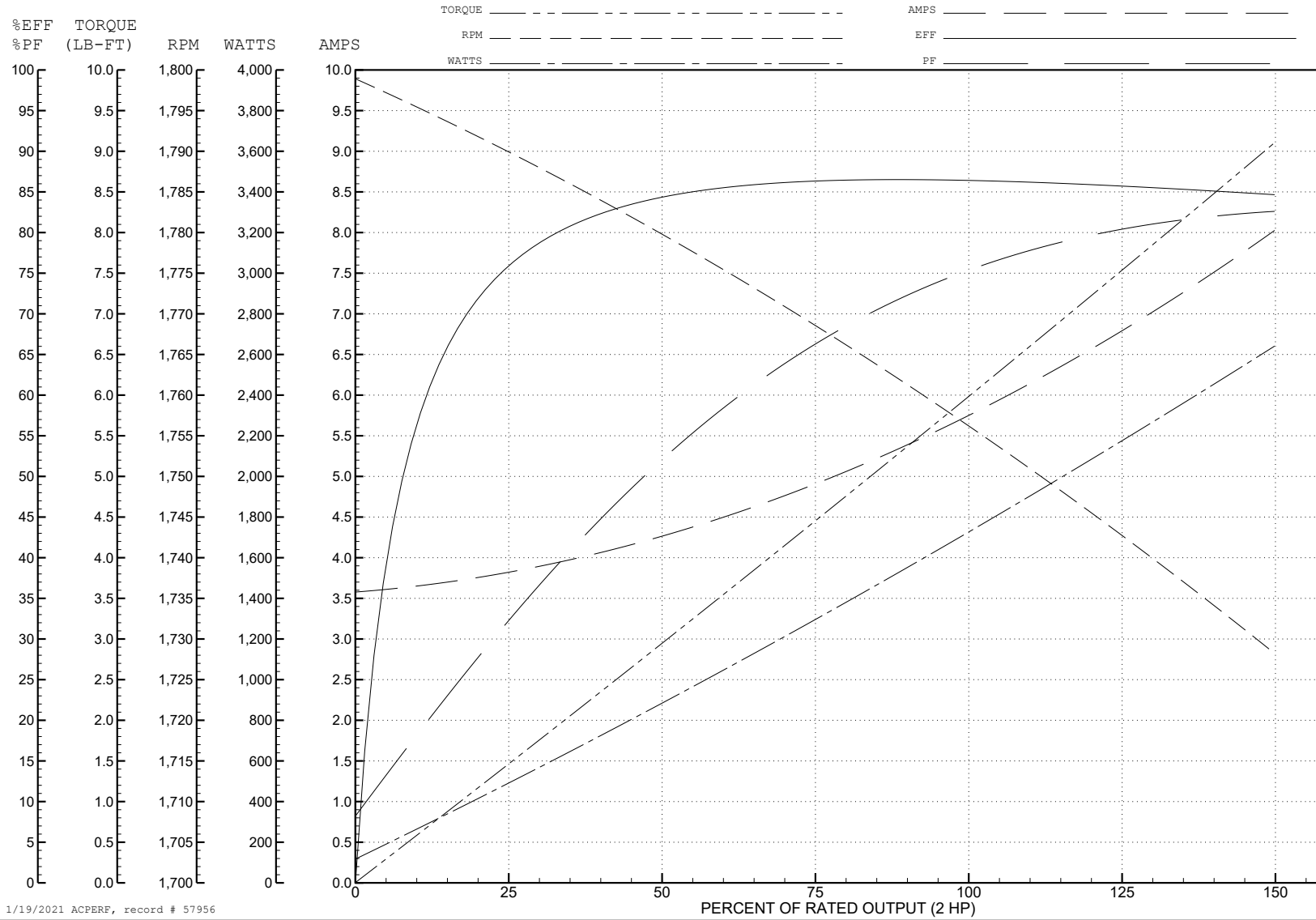
ABB Motors and Mechanical Inc.

WINDING # 35WGN909

Typical performance - not guaranteed values.

2 HP 3 PH 60 HZ 1755 RPM 230 V 3528M

TORQUES (LB-FT): PO=24.9 PU=15.9 LR=17.2 LRA=47.8



1/19/2021 ACPERF, record # 57956

AC Induction Motor Performance Data

Record # 73870

Typical performance - not guaranteed values

Winding: 35WGN909-R032		Type: 3528M		Enclosure: TEFC	
Nameplate Data			400 V, 50 Hz: High Voltage Connection		
Rated Output (HP)	2		Full Load Torque	7.25 LB-FT	
Volts	200/400		Start Configuration	direct on line	
Full Load Amps	6.8/3.4		Breakdown Torque	25.8 LB-FT	
R.P.M.	1450		Pull-up Torque	18.08 LB-FT	
Hz	50 Phase	3	Locked-rotor Torque	19.56 LB-FT	
NEMA Design Code	B KVA Code	K	Starting Current	24.2 A	
Service Factor (S.F.)	1.15		No-load Current	2.09 A	
NEMA Nom. Eff.	84.5 Power Factor	75	Line-line Res. @ 25°C	8.02 Ω	
Rating - Duty	40C AMB-CONT		Temp. Rise @ Rated Load	85°C	
S.F. Amps			Temp. Rise @ S.F. Load	104°C	
			Locked-rotor Power Factor	58.9	
			Rotor inertia	0.165 LB-FT ²	

Load Characteristics 400 V, 50 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	33	54	67	75	81	84	79
Efficiency	74.5	82.9	84.7	84.5	83.2	81.2	83.7
Speed	1489	1477	1466	1451	1436	1419	1442
Line amperes	2.18	2.43	2.85	3.39	3.99	4.75	3.75

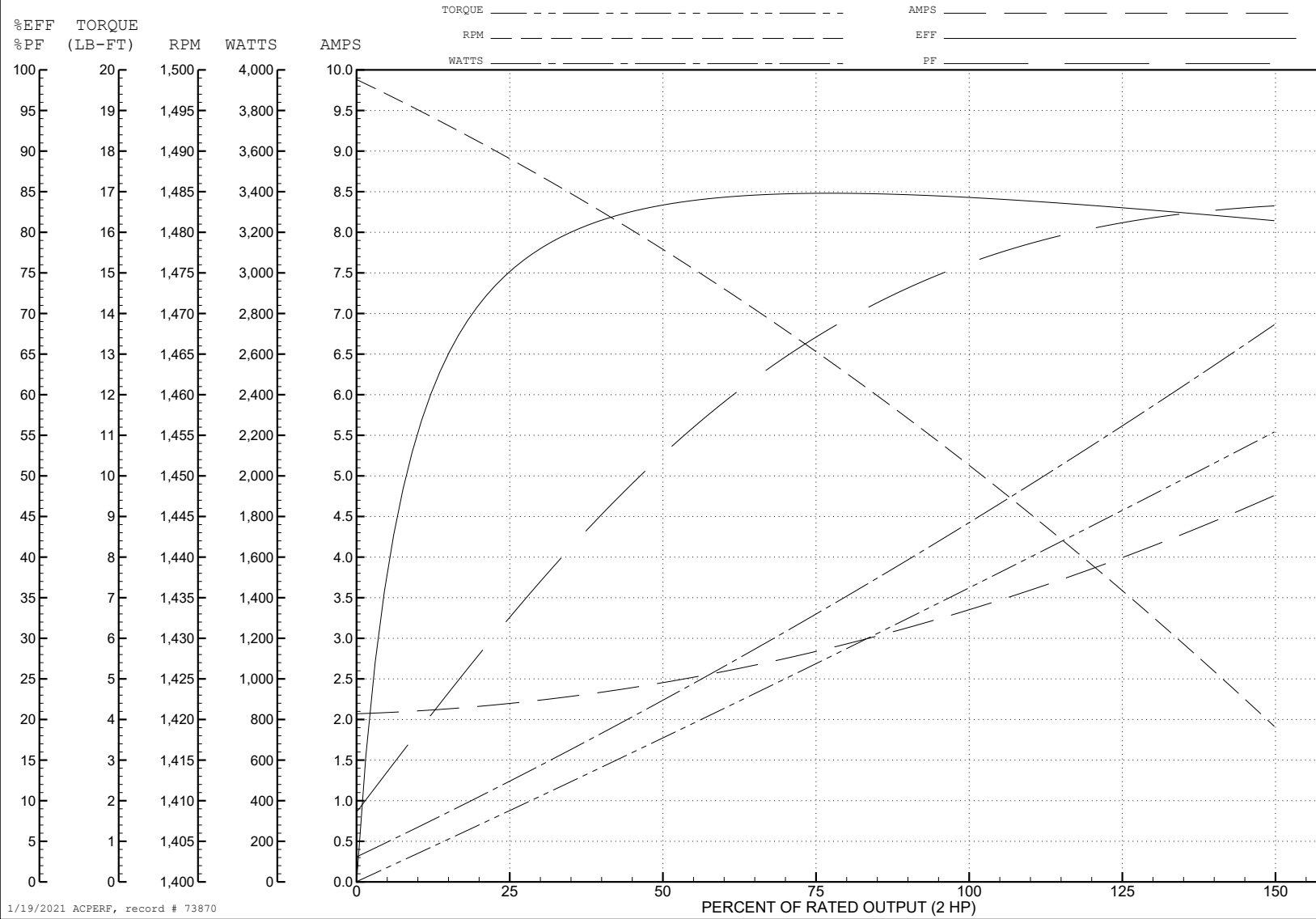
ABB Motors and Mechanical Inc.

WINDING # 35WGN909

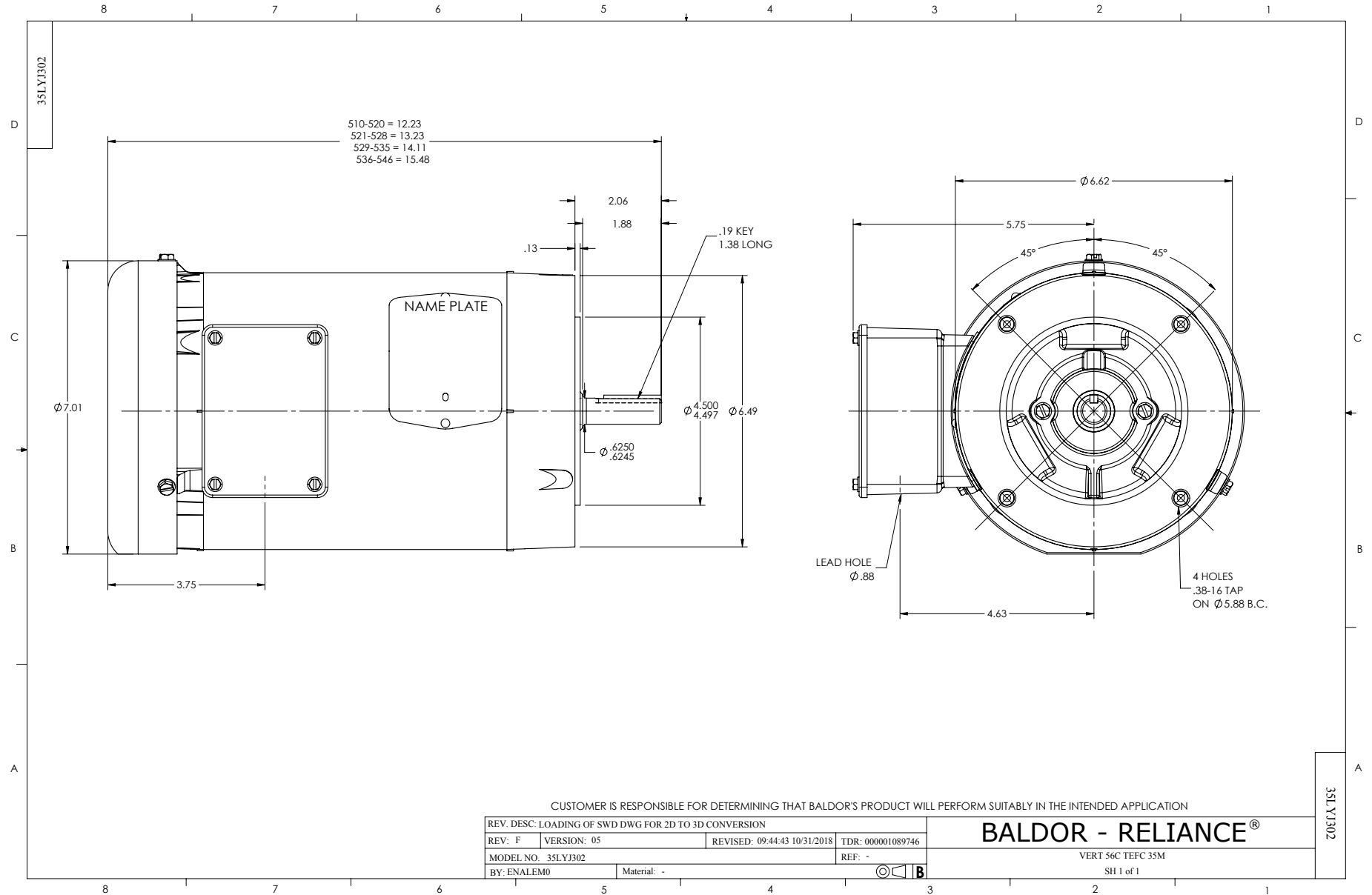
Typical performance - not guaranteed values.

2 HP 3 PH 50 HZ 1450 RPM 400 V 3528M

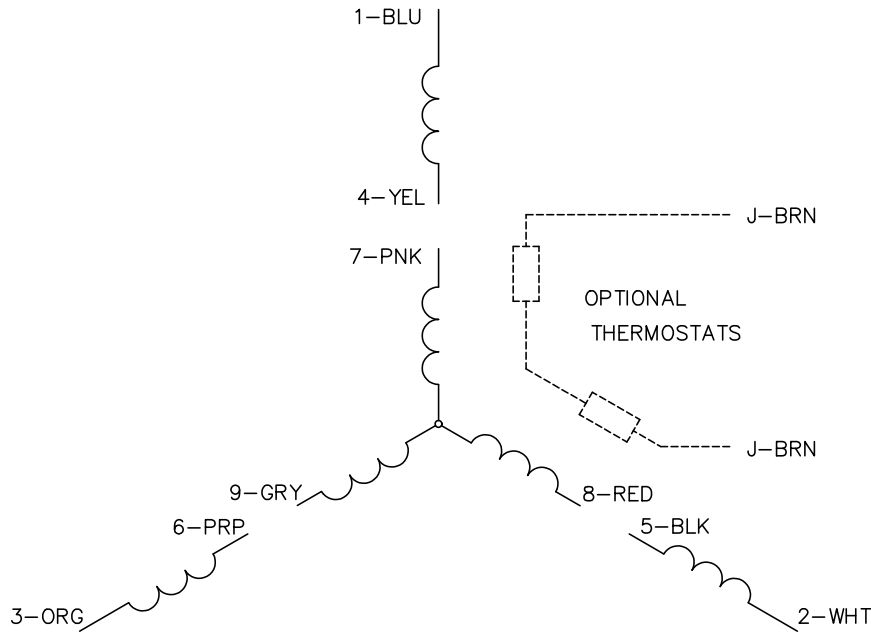
TORQUES (LB-FT): PO=25.8 PU=18.08 LR=19.56 LRA=24.2



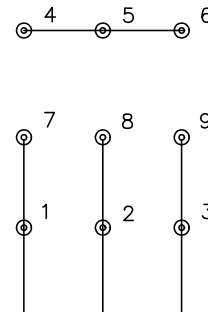
1/19/2021 ACPERF, record # 73870



CD0005

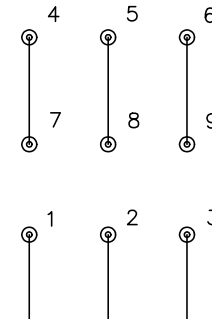


LOW VOLTAGE
(2Y)



LINE

HIGH VOLTAGE
(1Y)



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 BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0005

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
S00000		FILE: AAA00005140	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS