

BALDOR® • RELIANCE 

Product Information Packet

ERM3120

1.5HP,3490RPM,3PH,60HZ,56H,3518M,OPEN,F1

Part Detail							
Revision:	K	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	35WGM761	CD Diagram:	CD0005	Mfg Plant:	
Mech. Spec:	35F883	Layout:	35LYF883	Poles:	02	Created Date:	09-30-2014
Base:	RS	Eff. Date:	02-21-2022	Leads:	9#18		

Specs			
Catalog Number:	ERM3120	Insulation Class:	B
Enclosure:	OPEN	Inverter Code:	Inverter Ready
Frame:	56H	KVA Code:	L
Frame Material:	Steel	Lifting Lugs:	No Lifting Lugs
Output @ Frequency:	1.500 HP @ 60 HZ	Locked Bearing Indicator:	No Locked Bearing
Synchronous Speed @ Frequency:	3600 RPM @ 60 HZ	Motor Lead Quantity/Wire Size:	9 @ 18 AWG
Voltage @ Frequency:	460.0 V @ 60 HZ	Motor Lead Exit:	Terminal Panel
	230.0 V @ 60 HZ	Motor Lead Termination:	Flying Leads
	208.0 V @ 60 HZ	Motor Type:	3518M
XP Class and Group:	None	Mounting Arrangement:	F1
XP Division:	Not Applicable	Power Factor:	83
Agency Approvals:	C UR US ENERGY	Product Family:	General Purpose
Auxillary Box:	No Auxillary Box	Pulley End Bearing Type:	Ball
Auxillary Box Lead Termination:	None	Pulley Face Code:	Resilient Mount
Base Indicator:	Resilient	Pulley Shaft Indicator:	Standard
Bearing Grease Type:	Polyrex EM (-20F +300F)	Rodent Screen:	None
Blower:	None	RoHS Status:	ROHS COMPLIANT
Current @ Voltage:	4.200 A @ 208.0 V	Shaft Extension Location:	Pulley End

	4.000 A @ 230.0 V	Shaft Ground Indicator:	No Shaft Grounding
	2.000 A @ 460.0 V	Shaft Rotation:	Reversible
Design Code:	B	Shaft Slinger Indicator:	No Slinger
Drip Cover:	No Drip Cover	Speed Code:	Single Speed
Duty Rating:	CONT	Motor Standards:	NEMA
Electrically Isolated Bearing:	Not Electrically Isolated	Starting Method:	Direct on line
Feedback Device:	NO FEEDBACK	Thermal Device - Bearing:	None
Front Face Code:	Terminal Panel	Thermal Device - Winding:	None
Front Shaft Indicator:	None	Vibration Sensor Indicator:	No Vibration Sensor
Heater Indicator:	No Heater	Winding Thermal 1:	None
		Winding Thermal 2:	None

Nameplate NP3155L										
CAT.NO.	ERM3120									
SPEC.	35F883M761G1									
HP	1.5									
VOLTS	208-230/460									
AMP	4.2-4/2									
RPM	3490									
FRAME	56H				HZ	60			PH	3
SER.F.	1.15			CODE	L	DES	B		CL	B
F.L. AVG. EFF.	84			PF	83					
RATING	40C AMB-CONT									
CC									USABLE AT 208V	
DE	6203				ODE	6203				
ENCL	OPEN			SN						

Parts List		
Part Number	Description	Quantity
SA288812	SA 35F883M761G1	1.000 EA
RA274998	RA 35F883M761G1	1.000 EA
11XW0832G06	#8-32 X 3/8, TAPTITE II, HEX WSHR SLTD	1.000 EA
LD5000A01	LEAD ASSY, ML1400DF14 7" RING TRM EA END	1.000 EA
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	2.000 EA
HW1003A10	WASHER, #10 EX TH LK, ZN X	2.000 EA
35EP3202A01	STD OPEN FR EP - RESILIENT MTD	1.000 EA
RM1000A02	CUSHION RING, MODEL 35 SAME AS A07	1.000 EA
51XN1032A20	10-32 X 1 1/4 HX WS SL SR	1.000 EA
51XN1032A20	10-32 X 1 1/4 HX WS SL SR	1.000 EA
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	1.000 EA
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	3.000 EA
HW5100A03	WAVY WASHER (W1543-017)	1.000 EA
35EP3203A01	STD PU EP, OPEN RESIL MTG	1.000 EA
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	4.000 EA
RM1000A02	CUSHION RING, MODEL 35 SAME AS A07	1.000 EA
HA6005A01	CLAMP, BASE	2.000 EA
HA6005A01	CLAMP, BASE	2.000 EA
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	1.000 EA
35CB4500SP	TERMINAL BOX LID STAMPED	1.000 EA
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	2.000 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

Parts List (continued)		
Part Number	Description	Quantity
SP1003A01	TERM. BOARD, MODE 35 SW X H-23655	1.000 EA
MJ1000A02	GREASE, MOBIL POLYREX EM - 124047	0.050 LB
MG1000Y03	MUNSELL 2.53Y 6.70/ 4.60, GLOSS 20,	0.017 GA
HA3100A28	THRUBOLT 10-32 X 8.187	4.000 EA
35BA4002A01	RESILIENT BASE, STAMPED	1.000 EA
LC0005E01	CONN.DIA./WARNING LABEL (LC0005/LB1119N)	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (2100/bx) 4/22	1.000 EA
NP3155L	ALUM SUPER-E UL CSA CC "SEMS"	1.000 EA
35PA1066	PKG GRP, PRINT PK1008A06	1.000 EA

AC Induction Motor Performance Data

Record # 47458

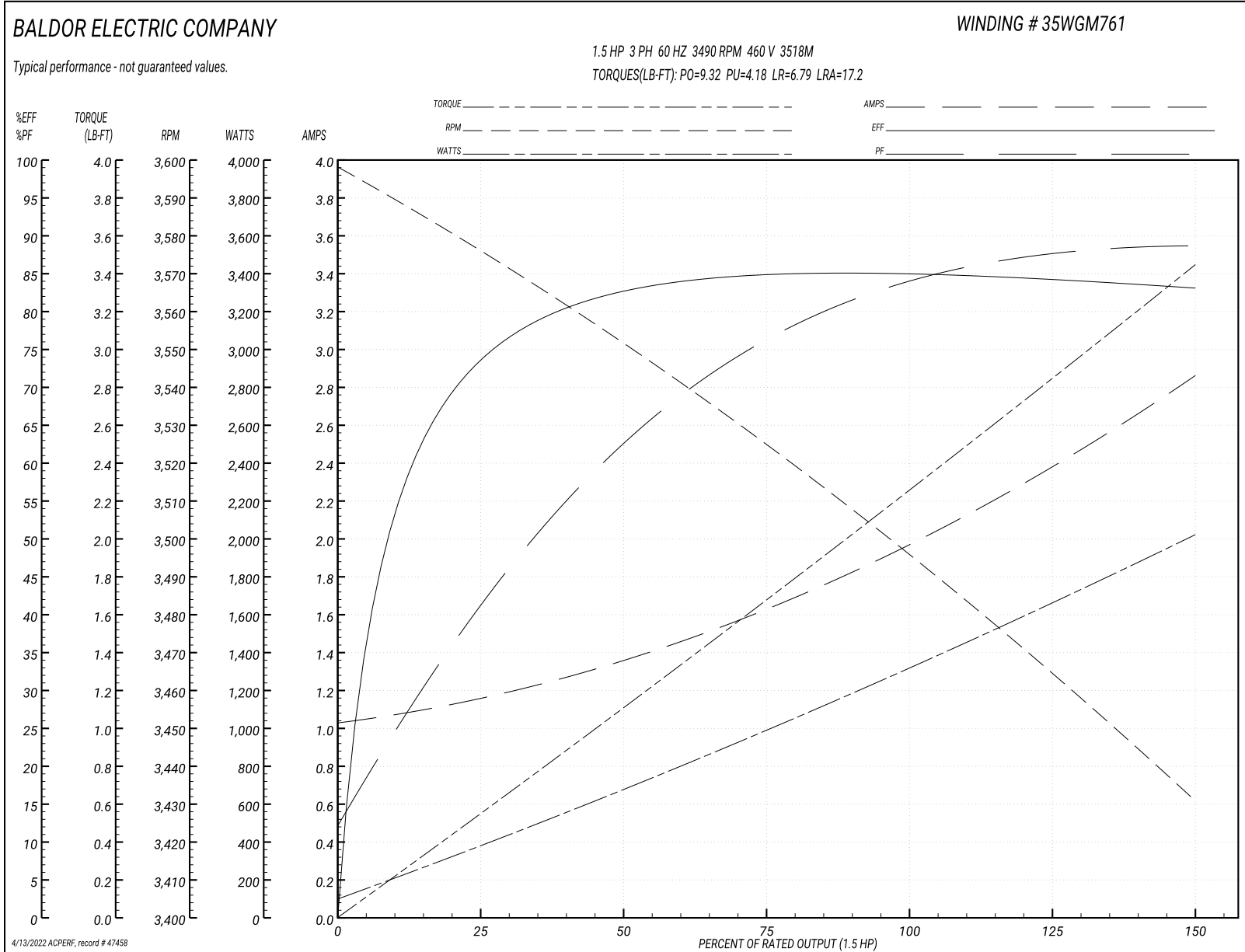
Typical performance - not guaranteed values

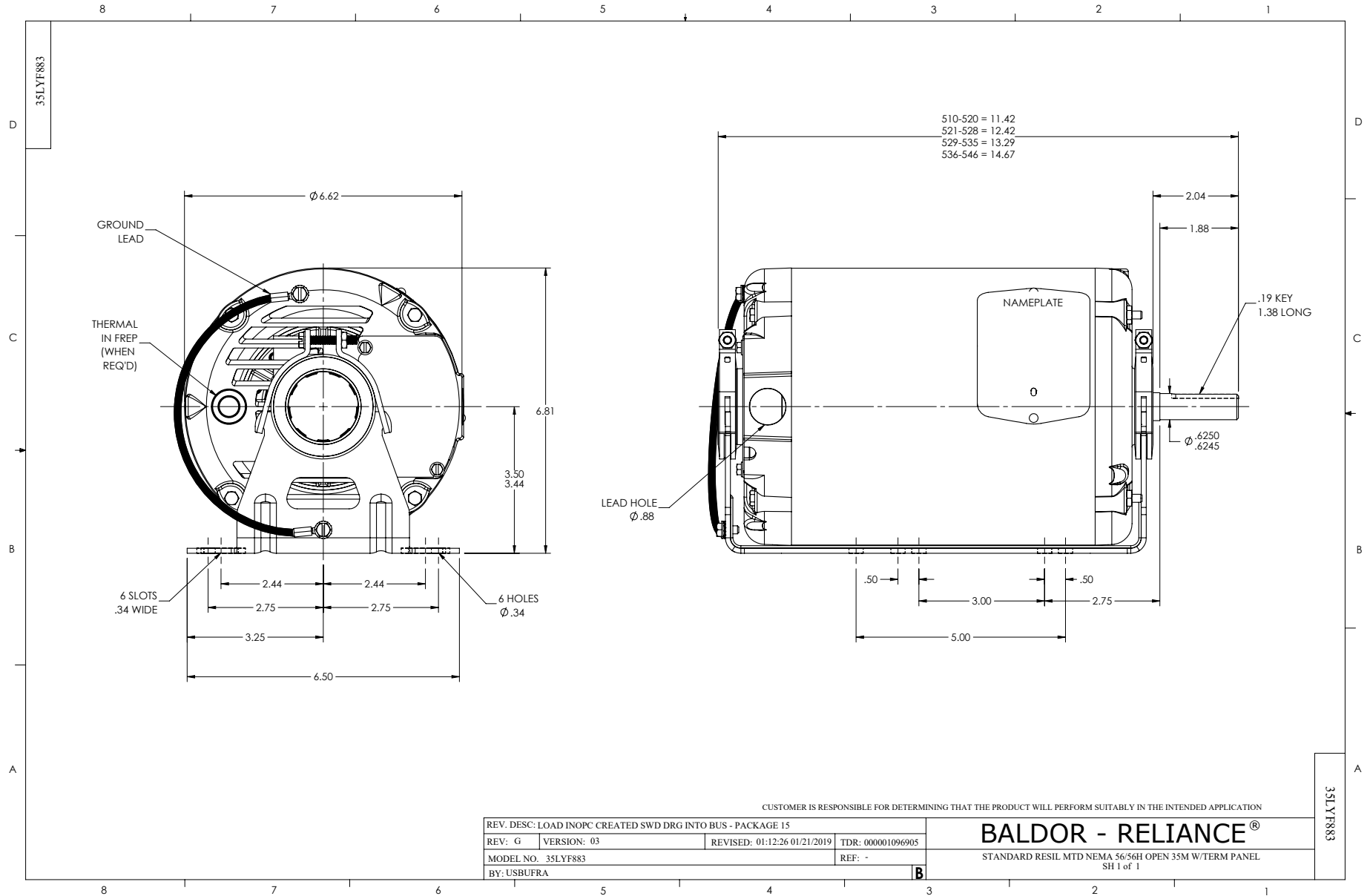
Winding: 35WGM761-R006		Type: 3518M		Enclosure: OPEN		
Nameplate Data			460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)	1.5	Full Load Torque		2.26 LB-FT		
Volts	208-230/460	Start Configuration		direct on line		
Full Load Amps	4.2-4/2	Breakdown Torque		9.32 LB-FT		
R.P.M.	3490	Pull-up Torque		4.18 LB-FT		
Hz	60 Phase	3	Locked-rotor Torque		6.79 LB-FT	
NEMA Design Code	B	KVA Code	L	Starting Current		17.2 A
Service Factor (S.F.)	1.15	No-load Current		1.05 A		
NEMA Nom. Eff.	84	Power Factor	83	Line-line Res. @ 25°C		12.897 Ω
Rating - Duty	40C	AMB-CONT		Temp. Rise @ Rated Load		24°C
S.F. Amps				Temp. Rise @ S.F. Load		29°C
				Locked-rotor Power Factor		64
				Rotor inertia		0.0493 LB-FT ²

Load Characteristics 460 V, 60 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	43	64	76	83	87	90	85
Efficiency	73.6	82.2	84.7	85	84.3	83	84.6
Speed	3574.4	3550.4	3524.4	3496.4	3465.2	3430	3478
Line amperes	1.14	1.35	1.63	1.99	2.41	2.84	2.24

Performance Graph at 460V, 60Hz, 1.5HP Typical performance - Not guaranteed values





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.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
90000		FILE: AAA00005140	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005