ABB BALDOR RELIANCE

Customer information packet

ERM3120

1.5HP, 3490RPM, 3PH, 60HZ, 56H, 3518M, OPEN, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	OPEN
Frame	56H
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
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	230.0 V @ 60 HZ
	208.0 V @ 60 HZ
Agency Approvals	CSA
	UR
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Resilient
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	4.200 A @ 208.0 V
	4.000 A @ 230.0 V
	2.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	84.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Terminal Panel
Front Shaft Indicator	None

Part Detail

Revision	N
Type	AC
Mech. spec.	35F883
Base	
Status	PRD/A
Elec. spec.	35WGM761
Layout	35LYF883
Eff. date	01-08-2026
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	09-30-2014

Heater Indicator	No Heater
High Voltage Full Load Amps	2.0 a
Insulation Class	B
Inverter Code	Inverter Ready
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Terminal Panel
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3518M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	11.42 IN
Power Factor	83
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Resilient Mount
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	3490 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

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											
DE	6203		**ODE**	6203							
ENCL	OPEN	**SN**									

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. @ 25ºC**	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-FT2

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

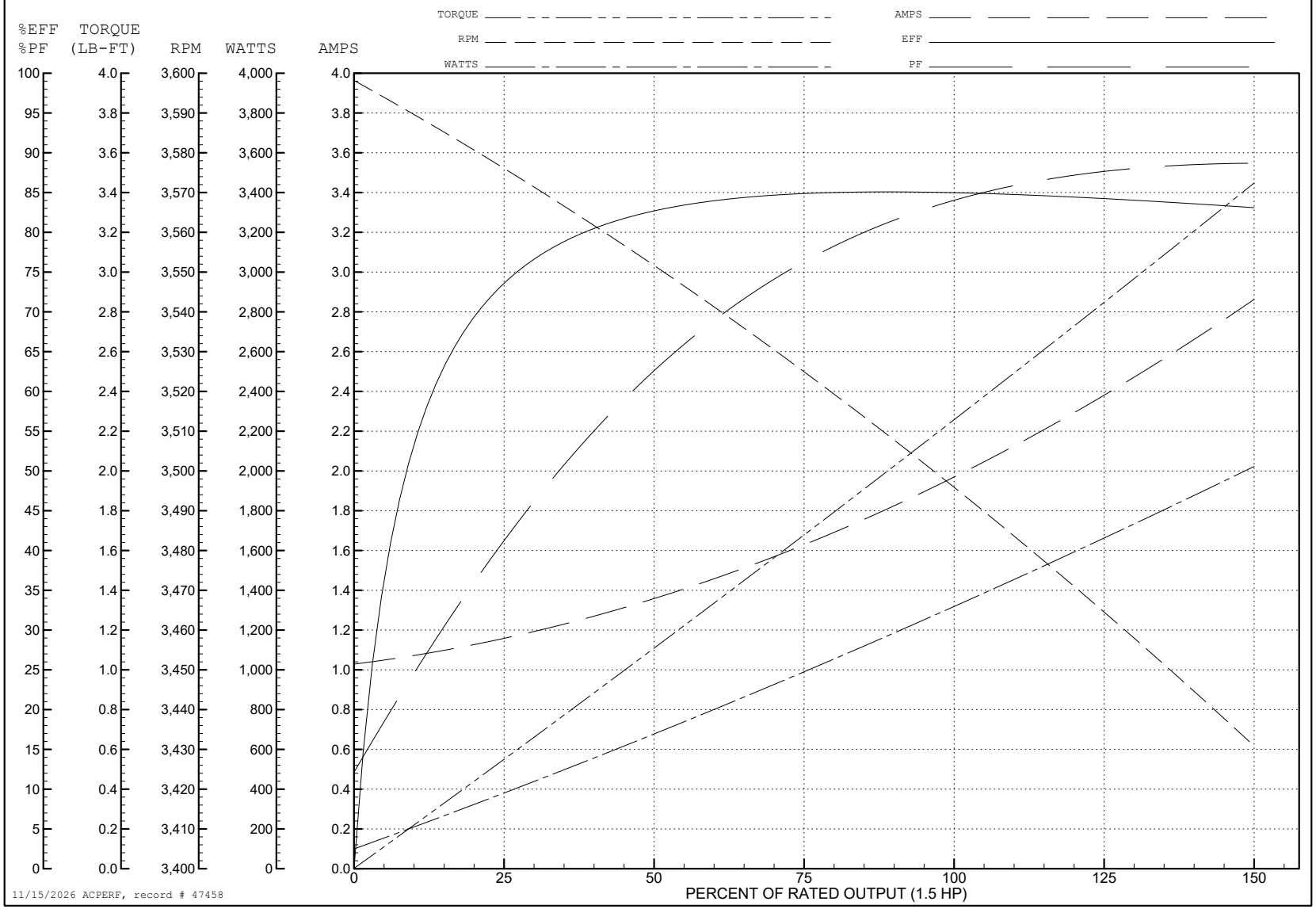
ABB Motors and Mechanical Inc.

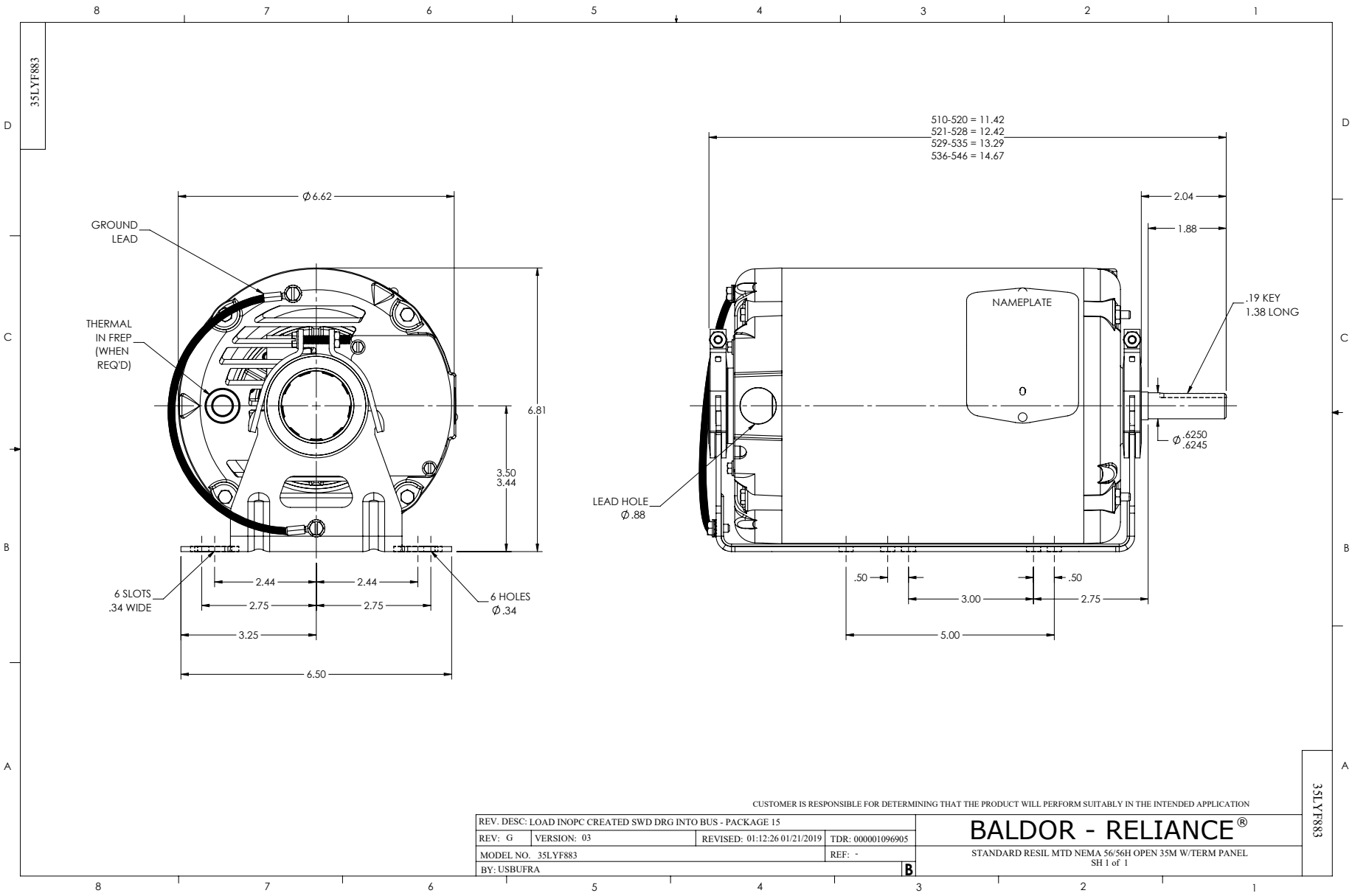
WINDING # 35WGM761

1.5 HP 3 PH 60 HZ 3490 RPM 460 V 3518M

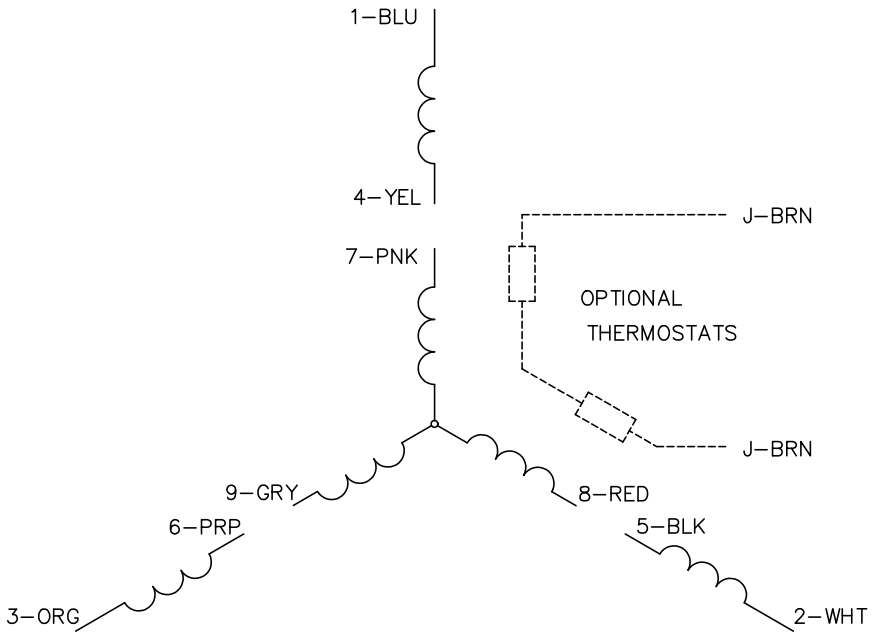
Typical performance - not guaranteed values.

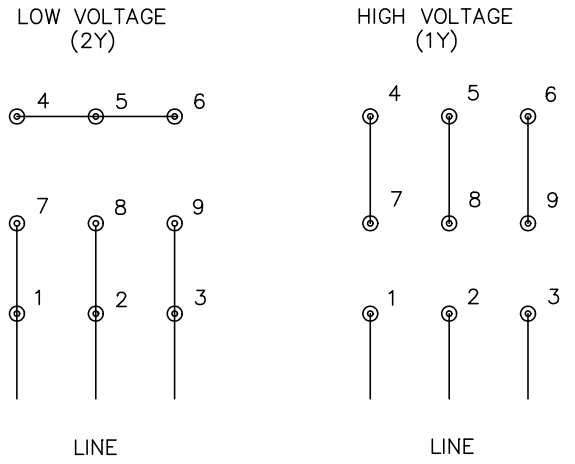
TORQUES(LB-FT): PO=9.32 PU=4.18 LR=6.79 LRA=17.2




35LYF883
Ø 6.62
GROUND LEAD
THERMAL IN FREP (WHEN REQ'D)
6.81
3.50
3.44
6 SLOTS .34 WIDE
2.44
2.44
2.75
2.75
3.25
6.50
6 HOLES Ø .34
510-520 = 11.42
521-528 = 12.42
529-535 = 13.29
536-546 = 14.67
2.04
1.88
NAMEPLATE
.19 KEY
1.38 LONG
Ø .6250
.6245
LEAD HOLE Ø .88
.50
.50
3.00
2.75
5.00
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD INOPC CREATED SWD DRG INTO BUS - PACKAGE 15
REV: G
VERSION: 03
REVISED: 01:12:26 01/21/2019
TDR: 000001096905
MODEL NO. 35LYF883
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
STANDARD RESIL MTD NEMA 56/56H OPEN 35M W/TERM PANEL
SH 1 of 1
35LYF883

CD0005





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			BALDOR ELECTRIC Co.
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
CD0005		FILE: AAA00005140	MDL: –
		MTL: –	3PH, DV, 9 LEADS