ABB BALDOR RELIANCE

Customer information packet

EJM3559-5

3HP, 3450RPM, 3PH, 60HZ, 56J, 3532M, TEFC, F1, N
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	56J
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	3.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	CSA EEV CSA UR
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	2.900 A @ 575.0 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
High Voltage Full Load Amps	2.9 a
Insulation Class	F

Part Detail

Revision	L
Type	AC
Mech. spec.	35F084
Base	
Status	PRD/A
Elec. spec.	35WGM839
Layout	35LYF084
Eff. date	08-04-2025
CD Diagram	CD0006
Poles	02
Leads	3#18
Proprietary	False
Created date	07-11-2016

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	3 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3532M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	14.62 IN
Power Factor	92
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Ext Thread
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	3450 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

NP1259L									
CAT.NO.	EJM3559-5								
SPEC.	35F084M839G3								
HP	3								
VOLTS	575								
AMP	2.9								
RPM	3450								
FRAME	56J		**HZ**	60			**PH**	3	
SER.F.	1.15	**CODE**	L	**DES**	B	**CL**	F		
NEMA-NOM-EFF	86.5	**PF**	92						
RATING	40C AMB-CONT								
CC	010A								
DE	6205		**ODE**	6203					
ENCL	TEFC	**SN**							

AC Induction Motor Performance Data
Record # 32143
Typical performance - not guaranteed values

Winding: 35WGM839-R001	**Type:** 3532M	**Enclosure:** TEFC

Nameplate Data				**575 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			3	**Full Load Torque**	4.5 LB-FT
Volts			575	**Start Configuration**	direct on line
Full Load Amps			2.9	**Breakdown Torque**	17.8 LB-FT
R.P.M.			3450	**Pull-up Torque**	10.9 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	15.8 LB-FT
NEMA Design Code	B	**KVA Code**	L	**Starting Current**	26.1 A
Service Factor (S.F.)			1.15	**No-load Current**	0.948 A
NEMA Nom. Eff.	86.5	**Power Factor**	92	**Line-line Res. @ 25ºC**	7.47 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	61°C
S.F. Amps				**Temp. Rise @ S.F. Load**	74°C
				Locked-rotor Power Factor	47
				Rotor inertia	0.0885 LB-FT2

Load Characteristics 575 V, 60 Hz, 3 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	58	77	86	88	89	90	89
Efficiency	83.8	87.9	88.1	87.2	85.5	83.4	86.2
Speed	3562	3531	3497	3461	3419	3373	3436
Line amperes	1.19	1.67	2.23	2.88	3.6	4.32	3.31

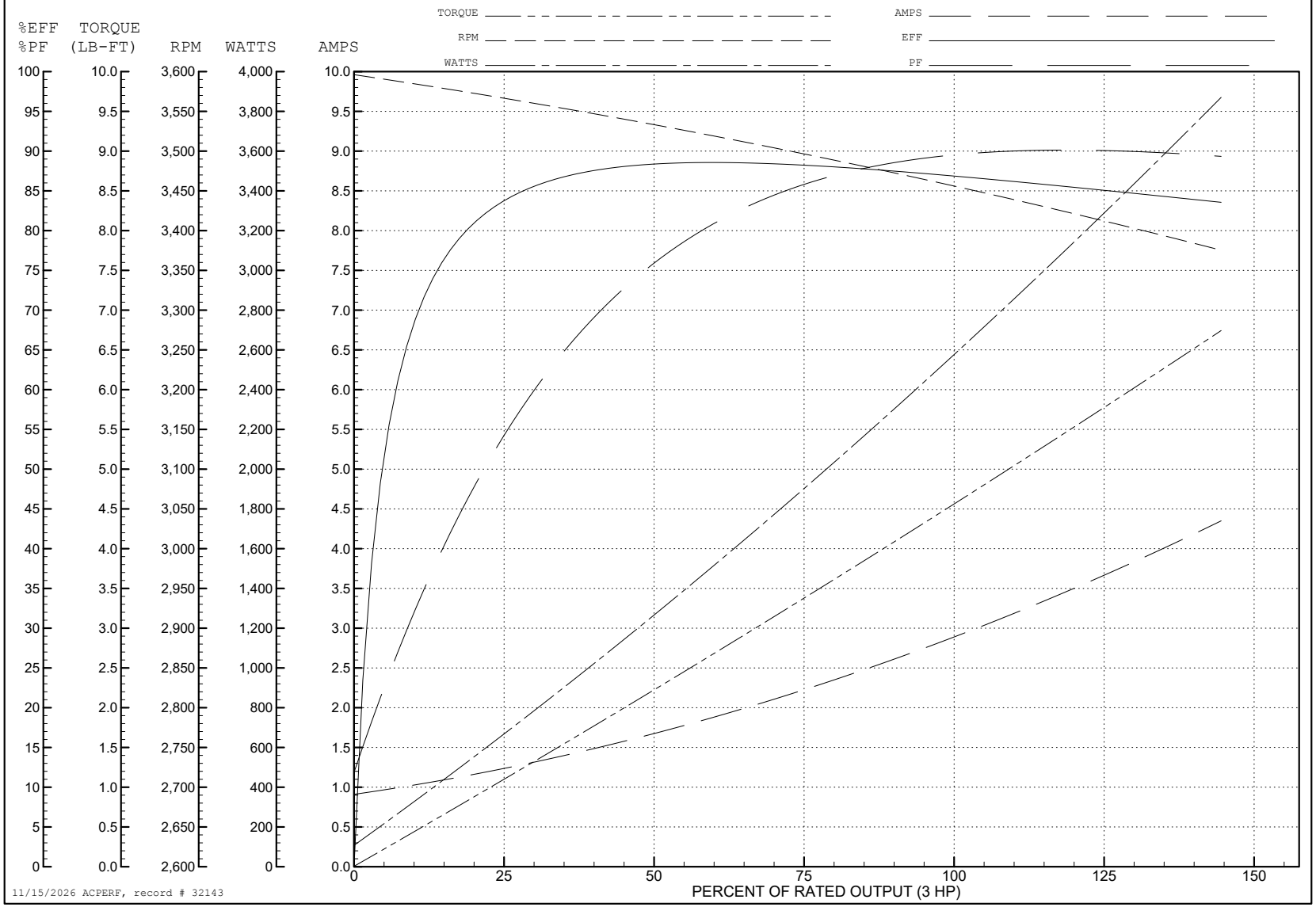
ABB Motors and Mechanical Inc.

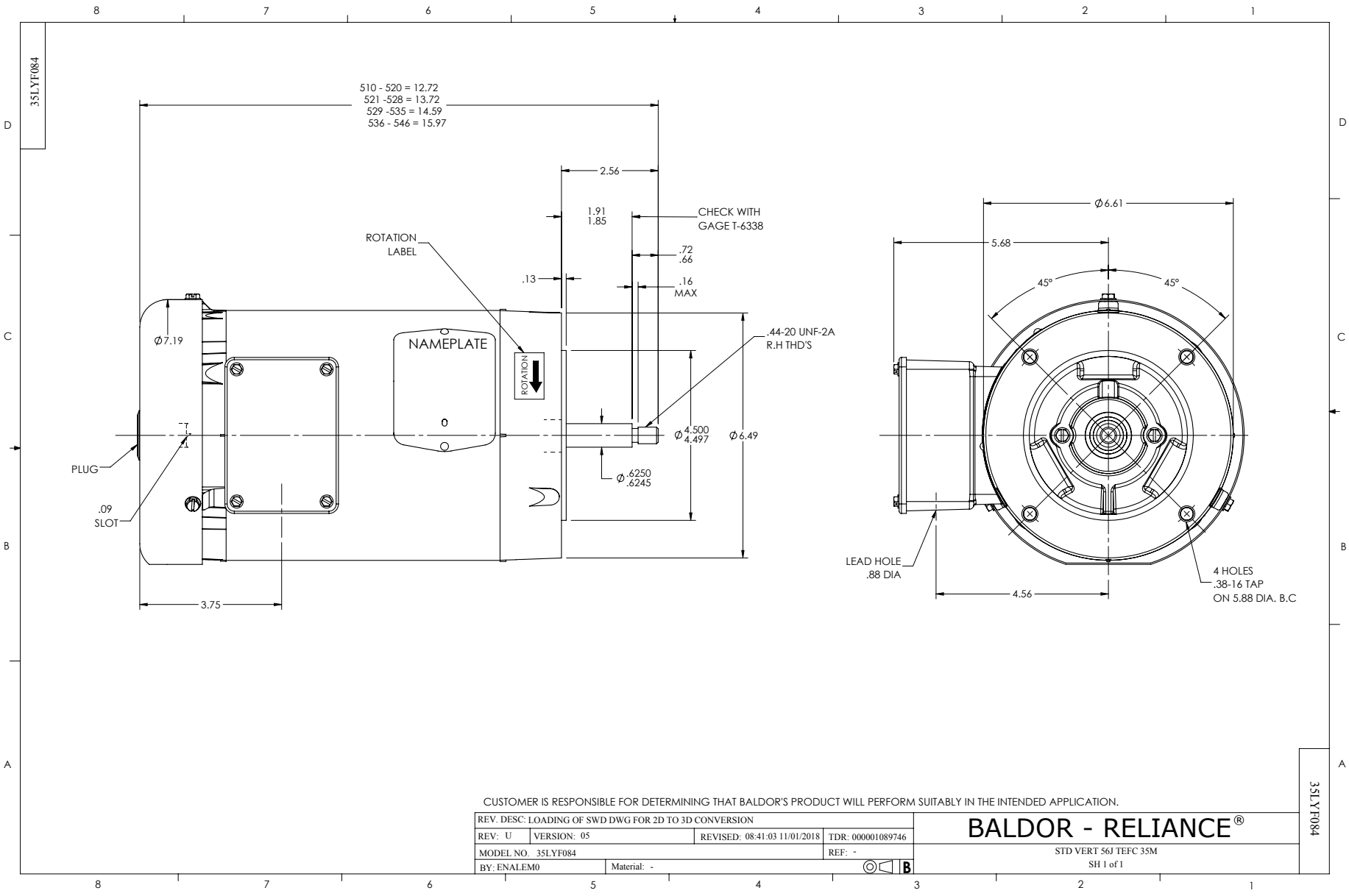
WINDING # 35WGM839

3 HP 3 PH 60 HZ 3450 RPM 575 V 3532M

Typical performance - not guaranteed values.

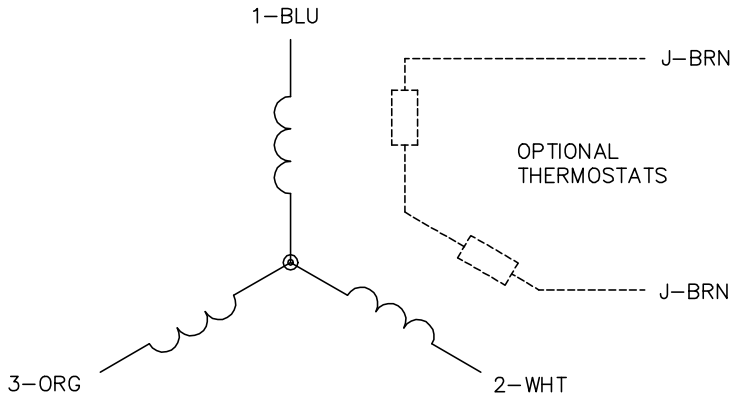
TORQUES(LB-FT): PO=17.8 PU=10.9 LR=15.8 LRA=26.1

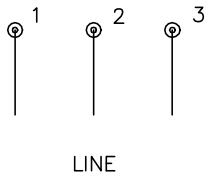



35LYF084
510 - 520 = 12.72
521 -528 = 13.72
529 -535 = 14.59
536 - 546 = 15.97
2.56
1.91
1.85
CHECK WITH
GAGE T-6338
ROTATION
LABEL
.72
.66
.13
.16
MAX
Ø7.19
NAMEPLATE
ROTATION
.44-20 UNF-2A
R.H THD'S
Ø4.500
4.497
Ø6.49
Ø.6250
.6245
PLUG
.09
SLOT
3.75
Ø6.61
5.68
45°
45°
LEAD HOLE
.88 DIA
4.56
4 HOLES
.38-16 TAP
ON 5.88 DIA. B.C
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.
REV. DESC: LOADING OF SWD DWG FOR 2D TO 3D CONVERSION
REV: U
VERSION: 05
REVISED: 08:41:03 11/01/2018
TDR: 000001089746
MODEL NO. 35LYF084
REF: -
BY: ENALEM0
Material: -
B
BALDOR - RELIANCE®
STD VERT 56J TEFC 35M
SH 1 of 1
35LYF084

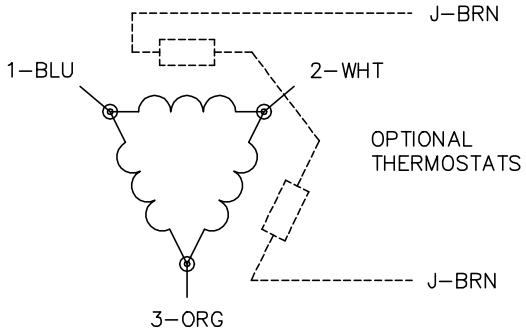
CD0006

TYPICAL WYE–CONNECTED MOTOR





TYPICAL DELTA–CONNECTED MOTOR



NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

REV. DESC: ADD CLASS CONN00000007		
REV. LTR: E	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\141	REVISED: 10:24:49 02/19/2019	BY: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

SH 1 of 1