ABB BALDOR RELIANCE

Customer information packet

JMEWDM3545T

1HP, 3450RPM, 3PH, 60HZ, 143JM, TEFC, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	143JM
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	1.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	CSA
	CSA EEV
	NEMA PREMIUM
	UR
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	1.400 A @ 460.0 V
	2.800 A @ 230.0 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
Heater Indicator	No Heater
High Voltage Full Load Amps	1.4 a

Part Detail

Revision	E
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	35WGS921
Layout	35LYSS629
Eff. date	01-17-2025
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	12-09-2019

Insulation Class	F
Inverter Code	Not Inverter
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3516M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	15.44 IN
Power Factor	82
Product Family	Wash Down
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
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

NP1669L									
CAT.NO.	JMEWDM3545T								
SPEC.	35-0000-0480								
HP	1								
VOLTS	230/460								
AMP	2.8/1.4								
RPM	3450								
FRAME	143JM	**HZ**	60			**PH**	3		
SER.F.	1.15	**CODE**	L	**DES**	B	**CLASS**	F		
NEMA-NOM-EFF	84	**PF**	82						
RATING	40C AMB-CONT								
CC	010A								
DE	6206	**ODE**	6203						
ENCL	TEFC	**SN**							
BLANK	20:1CT, 20:1VT,1.00SF								

AC Induction Motor Performance Data
Record # 54971
Typical performance - not guaranteed values

Winding: 35WGS921-R022	**Type:** 3516M	**Enclosure:** TEFC

Nameplate Data			
Rated Output (HP)			1
Volts			230/460
Full Load Amps			2.8/1.4
R.P.M.			3450
Hz	60	**Phase**	3
NEMA Design Code	B	**KVA Code**	L
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	84	**Power Factor**	82
Rating - Duty			40C AMB-CONT
S.F. Amps			

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	1.5 LB-FT
Start Configuration	direct on line
Breakdown Torque	6.5 LB-FT
Pull-up Torque	4.8 LB-FT
Locked-rotor Torque	5.7 LB-FT
Starting Current	12.1 A
No-load Current	0.68 A
Line-line Res. @ 25ºC	15.2 Ω
Temp. Rise @ Rated Load	33°C
Temp. Rise @ S.F. Load	38°C
Locked-rotor Power Factor	56.1
Rotor inertia	0.0443 LB-FT2

Load Characteristics 460 V, 60 Hz, 1 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	45	65	77	83	87	87	85
Efficiency	70.4	80.6	84	84.6	84.7	83.7	84.7
Speed	3567	3539	3510	3479	3446	3410	3459
Line amperes	0.75	0.9	1.09	1.33	1.56	1.88	1.47

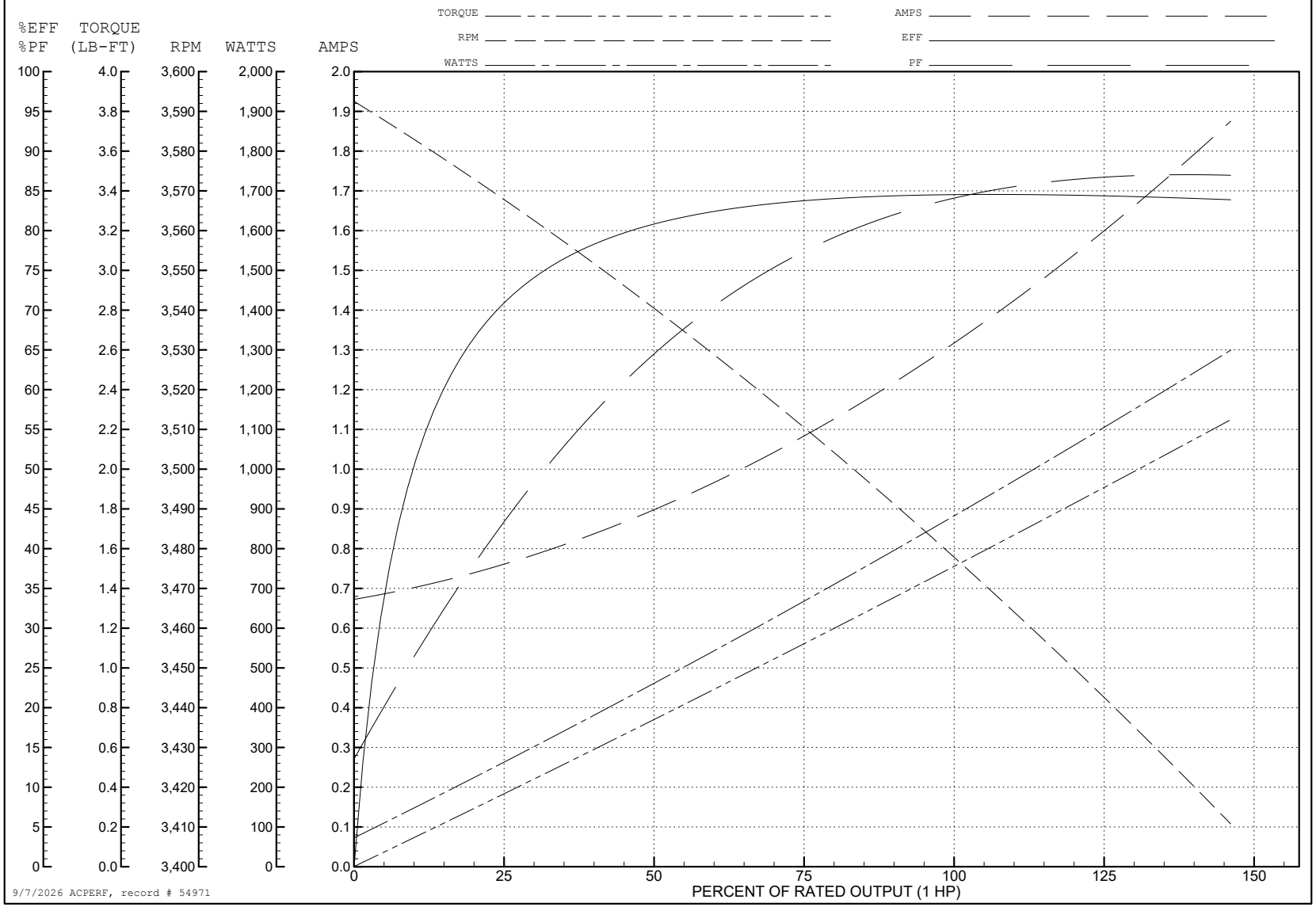
ABB Motors and Mechanical Inc.

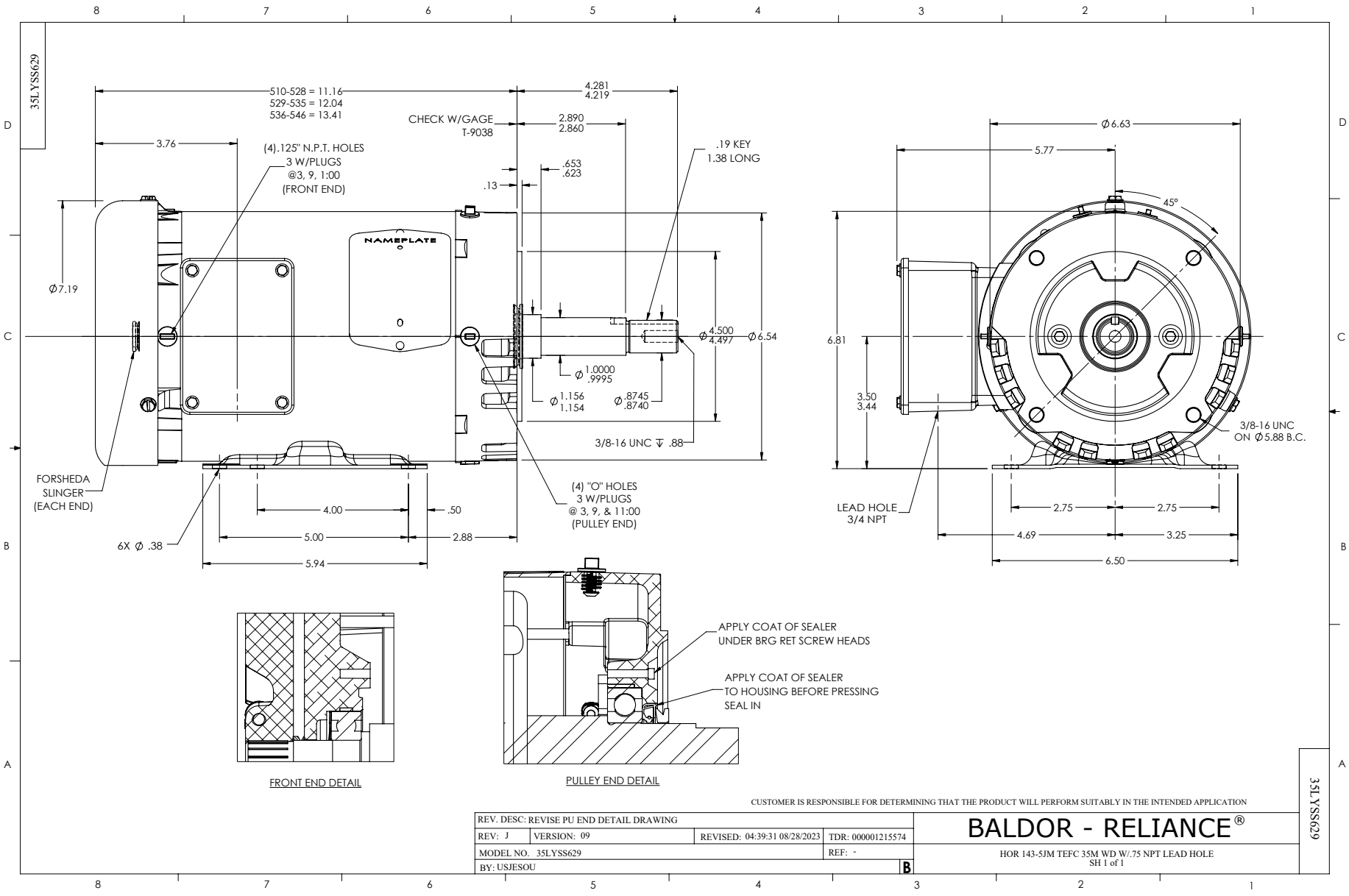
WINDING # 35WGS921

1 HP 3 PH 60 HZ 3450 RPM 460 V 3516M

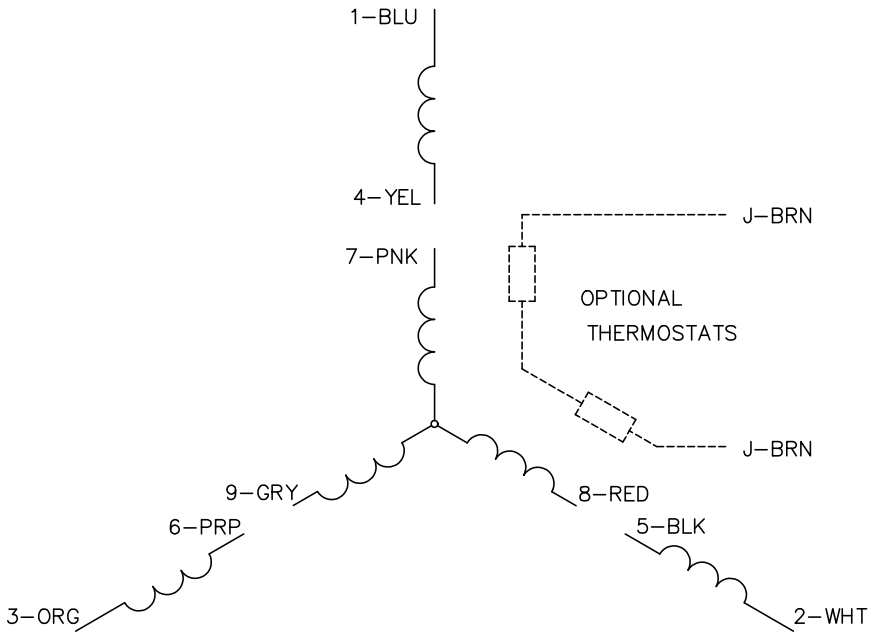
Typical performance - not guaranteed values.

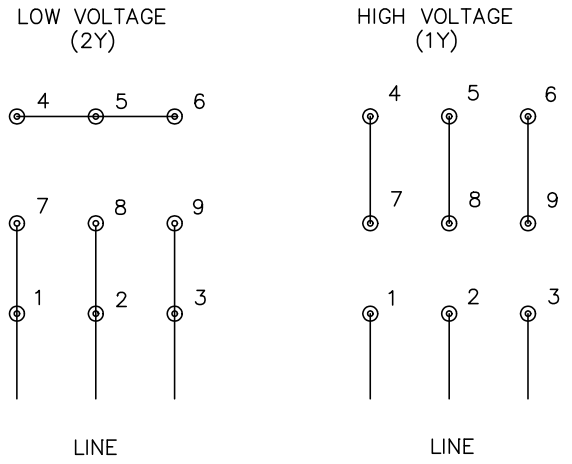
TORQUES(LB-FT): PO=6.5 PU=4.8 LR=5.7 LRA=12.1




35LYSS629
510-528 = 11.16
529-535 = 12.04
536-546 = 13.41
4.281
4.219
CHECK W/GAGE
T-9038
2.890
2.860
3.76
(4).125" N.P.T. HOLES
3 W/PLUGS
@3, 9, 1:00
(FRONT END)
.653
.623
.13
.19 KEY
1.38 LONG
NAMEPLATE
Ø7.19
Ø4.500
4.497
Ø6.54
Ø 1.0000
.9995
Ø 1.156
1.154
Ø .8745
.8740
3/8-16 UNC ↧ .88
FORSHEDA
SLINGER
(EACH END)
6X Ø .38
4.00
.50
5.00
2.88
5.94
(4) "O" HOLES
3 W/PLUGS
@ 3, 9, & 11:00
(PULLEY END)
Ø6.63
5.77
45°
6.81
3.50
3.44
3/8-16 UNC
ON Ø5.88 B.C.
LEAD HOLE
3/4 NPT
2.75
2.75
4.69
3.25
6.50
APPLY COAT OF SEALER
UNDER BRG RET SCREW HEADS
APPLY COAT OF SEALER
TO HOUSING BEFORE PRESSING
SEAL IN
FRONT END DETAIL
PULLEY END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: REVISE PU END DETAIL DRAWING
REV: J
VERSION: 09
REVISED: 04:39:31 08/28/2023
TDR: 000001215574
MODEL NO. 35LYSS629
REF: -
BY: USJESOU
B
BALDOR - RELIANCE®
HOR 143-5JM TEFC 35M WD W/.75 NPT LEAD HOLE
SH 1 of 1
35LYSS629

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