ABB BALDOR RELIANCE

Customer information packet

JWDM3463

.75HP, 3450RPM, 3PH, 60HZ, 56J, 3514M, TEFC, F1
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	.750 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	208.0 V @ 60 HZ
	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	UR
	CSA
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	1.400 A @ 460.0 V
	2.800 A @ 230.0 V
	3.000 A @ 208.0 V
	3.800 A @ 208.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	68.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard

Part Detail

Revision	P
Type	AC
Mech. spec.	35E2235
Base	
Status	PRD/A
Elec. spec.	35WG0081
Layout	35LYE2235
Eff. date	09-17-2025
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	10-15-2013

Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	1.4 a
Insulation Class	F
Inverter Code	Not Inverter
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	3514M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	12.72 IN
Power Factor	74
Product Family	Wash Down
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Ext Thread
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.50
Shaft Diameter	0.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft 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

NP1496L									
CAT.NO.	JWDM3463								
SPEC.	35E2235-0081G1								
HP	.75								
VOLTS	208-230/460								
AMP	3-2.8/1.4								
RPM	3450								
FRAME	56J	**HZ**	60			**PH**	3		
SER.F.	1.50	**CODE**	L	**DES**	B	**CLASS**	F		
NEMA-NOM-EFF	68	**PF**	74						
RATING	40C AMB-CONT								
CC									
DE	6205	**ODE**	6203						
ENCL	TEFC	**SN**							
	SFA 3.8-3.6/1.8								

AC Induction Motor Performance Data
Record # 78924
Typical performance - not guaranteed values

Winding: 35WG0081-R059	**Type:** 3514M	**Enclosure:** TEFC

Nameplate Data			
Rated Output (HP)			.75
Volts			208-230/460
Full Load Amps			3-2.8/1.4
R.P.M.			3450
Hz	60	**Phase**	3
NEMA Design Code	B	**KVA Code**	L
Service Factor (S.F.)			1.5
NEMA Nom. Eff.	68	**Power Factor**	74
Rating - Duty			40C AMB-CONT
S.F. Amps			3.8-3.6/1.8

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	1.12 LB-FT
Start Configuration	direct on line
Breakdown Torque	4.98 LB-FT
Pull-up Torque	3.71 LB-FT
Locked-rotor Torque	4.4 LB-FT
Starting Current	8.85 A
No-load Current	0.908 A
Line-line Res. @ 25ºC	18.6 Ω
Temp. Rise @ Rated Load	43°C
Temp. Rise @ S.F. Load	57°C
Locked-rotor Power Factor	67.5
Rotor inertia	0.0387 LB-FT2

Load Characteristics 460 V, 60 Hz, 0.75 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	43	58	68	76	80	83	83
Efficiency	41.9	57.7	64.8	69.2	70.7	71.1	71.1
Speed	3559	3534	3507	3475	3441	3402	3402
Line amperes	0.98	1.05	1.18	1.31	1.51	1.71	1.71

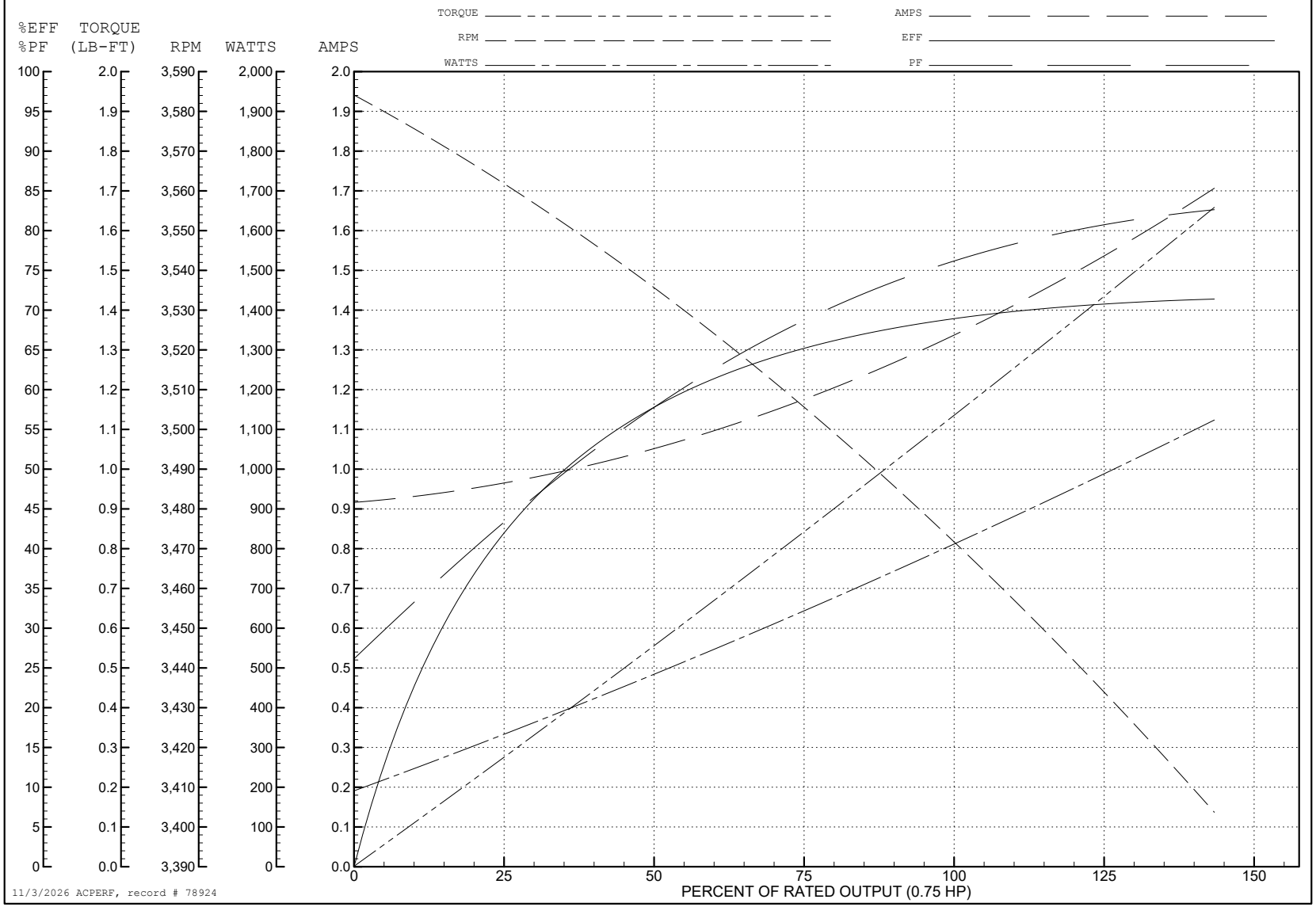
ABB Motors and Mechanical Inc.

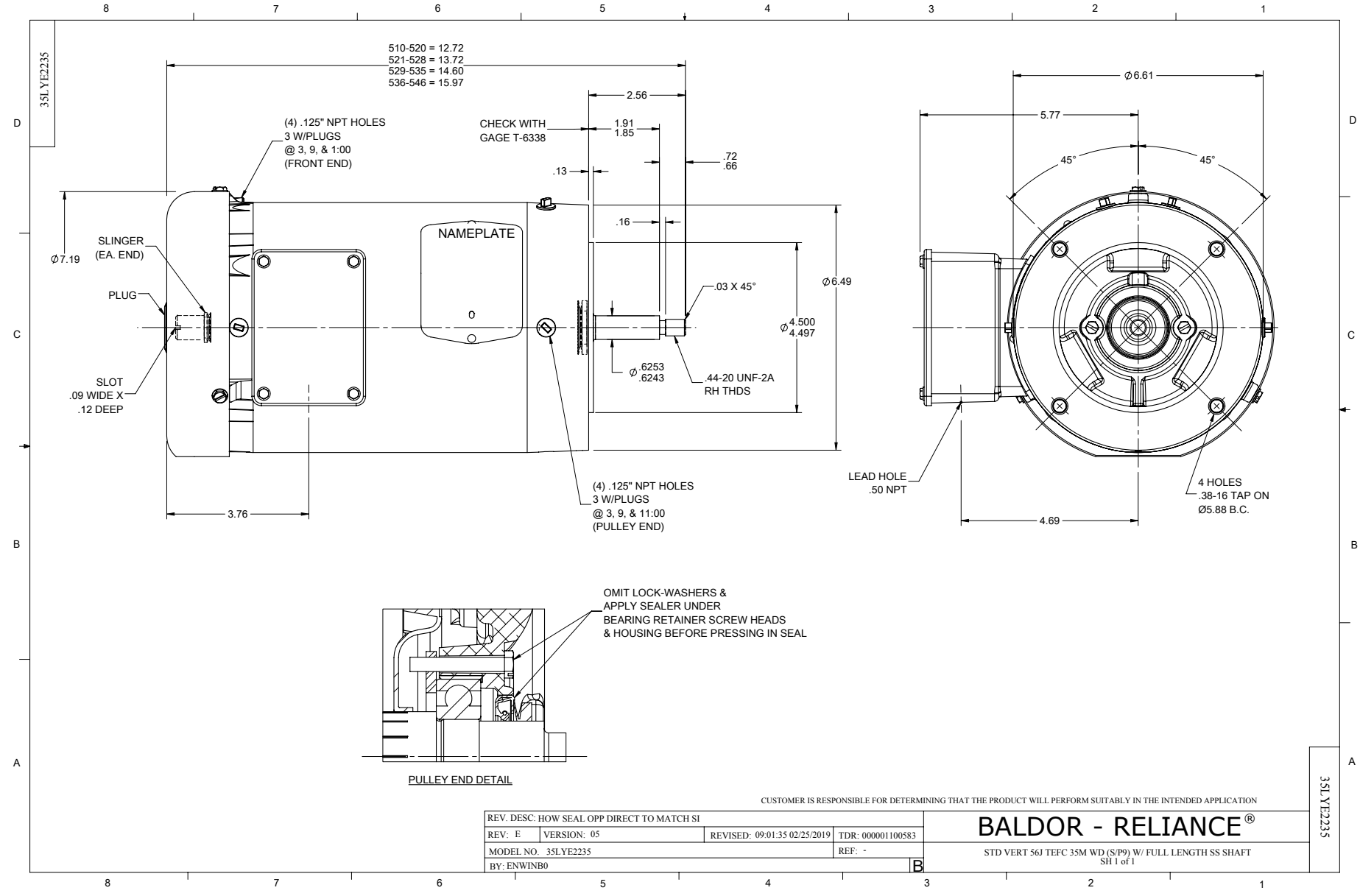
WINDING # 35WG0081

0.75 HP 3 PH 60 HZ 3450 RPM 460 V 3514M

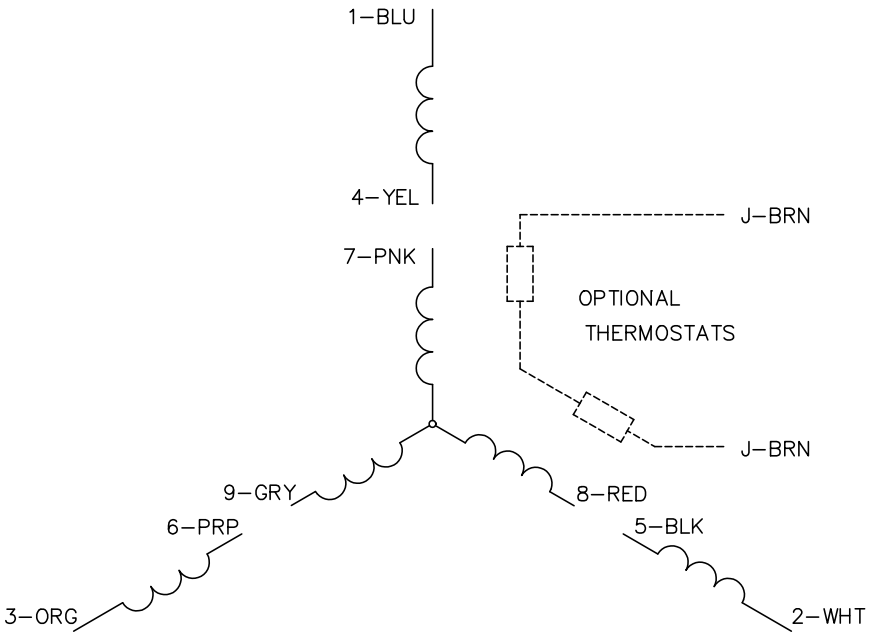
Typical performance - not guaranteed values.

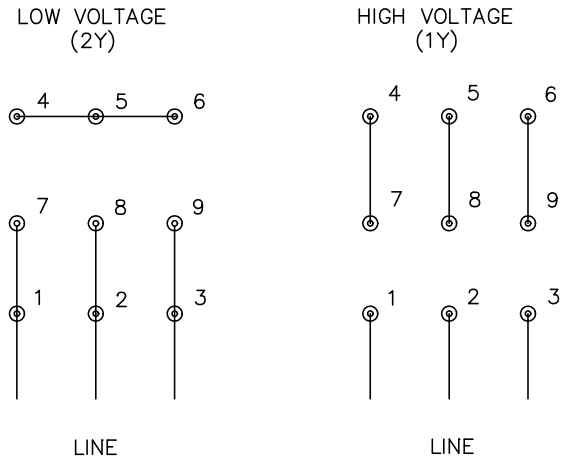
TORQUES(LB-FT): PO=4.98 PU=3.71 LR=4.4 LRA=8.85




35LYE2235
510-520 = 12.72
521-528 = 13.72
529-535 = 14.60
536-546 = 15.97
2.56
(4) .125" NPT HOLES
3 W/PLUGS
@ 3, 9, & 1:00
(FRONT END)
CHECK WITH
GAGE T-6338
1.91
1.85
.72
.66
.13
.16
NAMEPLATE
SLINGER
(EA. END)
Ø7.19
PLUG
SLOT
.09 WIDE X
.12 DEEP
.03 X 45°
Ø6.49
Ø4.500
4.497
Ø.6253
.6243
.44-20 UNF-2A
RH THDS
(4) .125" NPT HOLES
3 W/PLUGS
@ 3, 9, & 11:00
(PULLEY END)
3.76
Ø6.61
5.77
45°
45°
LEAD HOLE
.50 NPT
4 HOLES
.38-16 TAP ON
Ø5.88 B.C.
4.69
OMIT LOCK-WASHERS &
APPLY SEALER UNDER
BEARING RETAINER SCREW HEADS
& HOUSING BEFORE PRESSING IN SEAL
PULLEY END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: HOW SEAL OPP DIRECT TO MATCH SI
REV: E
VERSION: 05
REVISED: 09:01:35 02/25/2019
TDR: 000001100583
MODEL NO. 35LYE2235
REF: -
BY: ENWINB0
B
BALDOR - RELIANCE®
STD VERT 56J TEFC 35M WD (S/P9) W/ FULL LENGTH SS SHAFT
SH 1 of 1
35LYE2235

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