ABB BALDOR RELIANCE

Customer information packet

JEWDM3545

1HP, 3450RPM, 3PH, 60HZ, 56J, 3520M, 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	1.000 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	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	1.600 A @ 460.0 V
	3.200 A @ 230.0 V
	3.300 A @ 208.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	78.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard

Part Detail

Revision	Q
Type	AC
Mech. spec.	35E2235
Base	
Status	PRD/A
Elec. spec.	35WGR710
Layout	35LYE2235
Eff. date	09-17-2025
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	07-01-2015

Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	1.6 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	P
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	3520M
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	1.40
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

NP1669L								
CAT.NO.	JEWDM3545							
SPEC.	35E2235R710G1							
HP	1							
VOLTS	208-230/460							
AMP	3.3-3.2/1.6							
RPM	3450							
FRAME	56J	**HZ**	60		**PH**	3		
SER.F.	1.40	**CODE**	P	**DES**	B	**CLASS**	F	
NEMA-NOM-EFF	78.5	**PF**	74					
RATING	40C AMB-CONT							
CC	010A							
DE	6205	**ODE**	6203					
ENCL	TEFC	**SN**						
BLANK	SFA 4.2-4/2							

AC Induction Motor Performance Data
Record # 51666
Typical performance - not guaranteed values

Winding: 35WGR710-R026	**Type:** 3520M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			1	**Full Load Torque**	1.48 LB-FT
Volts			208-230/460	**Start Configuration**	direct on line
Full Load Amps			3.3-3.2/1.6	**Breakdown Torque**	9.7 LB-FT
R.P.M.			3450	**Pull-up Torque**	6.5 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	7.5 LB-FT
NEMA Design Code	B	**KVA Code**	P	**Starting Current**	16.4 A
Service Factor (S.F.)			1.4	**No-load Current**	0.84 A
NEMA Nom. Eff.	78.5	**Power Factor**	74	**Line-line Res. @ 25ºC**	10.6 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	34°C
S.F. Amps			4.2-4/2	**Temp. Rise @ S.F. Load**	45°C
				Locked-rotor Power Factor	56.5
				Rotor inertia	0.0548 LB-FT2

Load Characteristics 460 V, 60 Hz, 1 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	39	57	68	74	79	81	80
Efficiency	63.3	74	78.7	80	80.9	80.5	80.7
Speed	3568	3547	3524	3498	3473	3441	3454
Line amperes	0.97	1.12	1.32	1.56	1.8	2.09	1.97

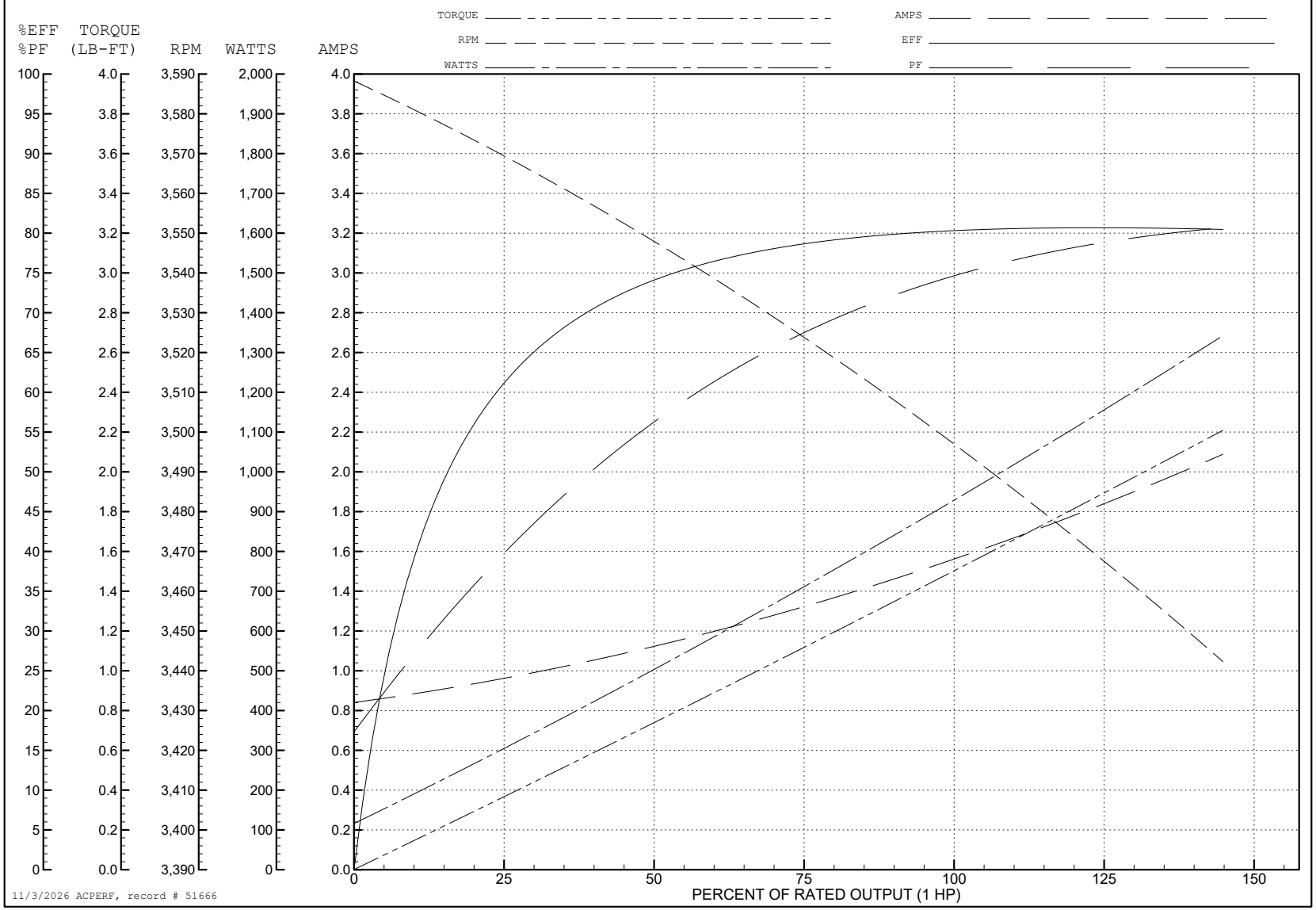
ABB Motors and Mechanical Inc.

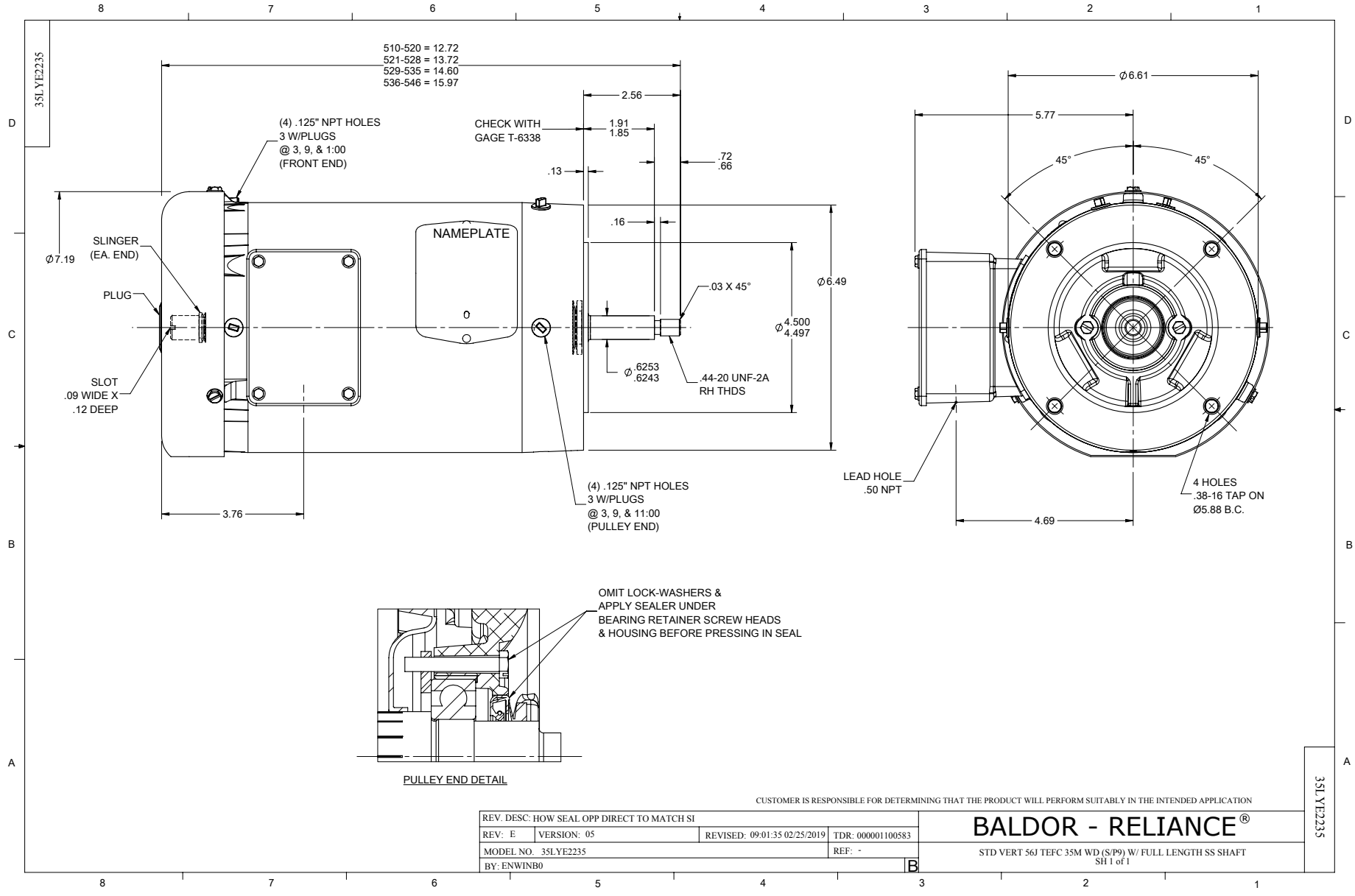
WINDING # 35WGR710

1 HP 3 PH 60 HZ 3450 RPM 460 V 3520M

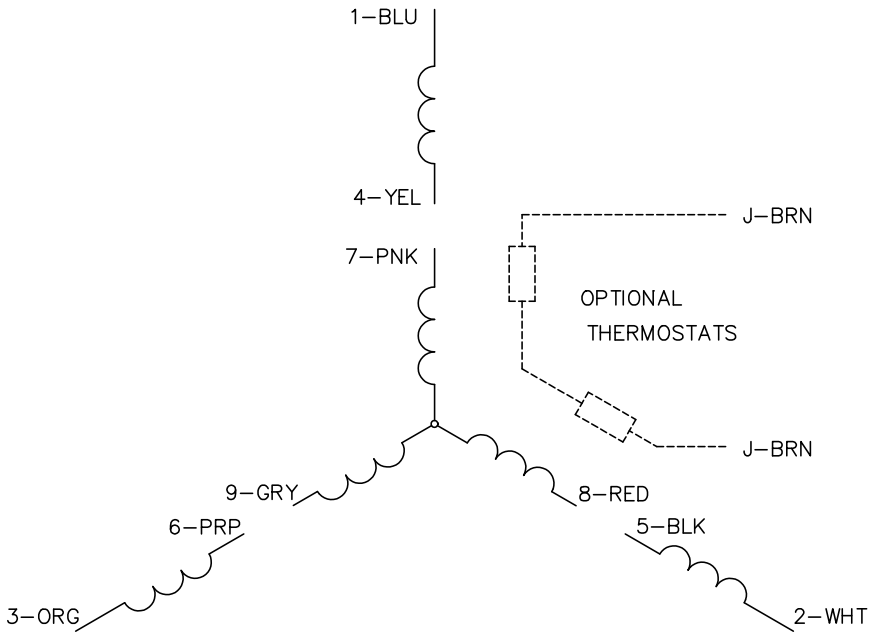
Typical performance - not guaranteed values.

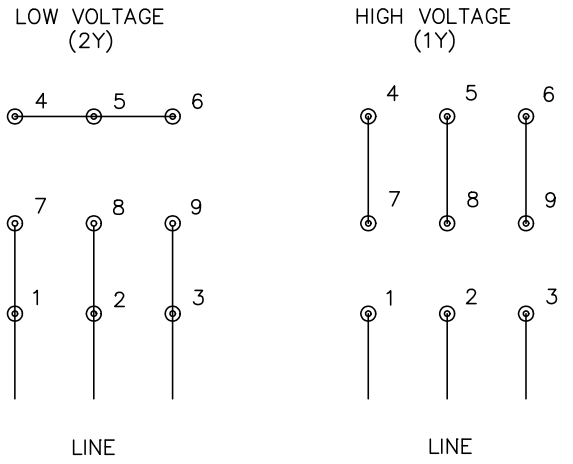
TORQUES(LB-FT): PO=9.7 PU=6.5 LR=7.5 LRA=16.4




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