Customer information packet

SPM31116

1HP, 1760RPM, 3PH, 60HZ, 56H, 3520M, ODP, F1, N
Class - None
Division - Not Applicable

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11/19/2026 12:00:00 PM

Specifications

Enclosure	ODP
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	1.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	NEMA PREMIUM 4
	WEEE
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	1.630 A @ 460.0 V
	3.200 A @ 208.0 V
	3.260 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	85.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	1.6 a

Part Detail

Revision	D
Type	AC
Mech. spec.	35E6250
Base	
Status	PRD/A
Elec. spec.	35WGG004
Layout	35LYE6250
Eff. date	06-07-2024
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	09-08-2023

Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	N
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Max Speed	2700 rpm
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	4
Overall Length	11.75 IN
Power Factor	67
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1760 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

NP4423A01A01L												
CAT #	SPM31116			**WGT**	37	**LBS**						
SPEC	35E6250G004			**ENCL**	ODP							
SER #				**CC**	010A	**IP**	23					
HP	1			**MAG CUR**	2.4/1.2							
VOLTS	230/460					**NEMA NOM. EFF**	85.5					
AMPS	3.26/1.63					**PF**	67					
RATING	40C AMB-CONT											
RPM	1760					**MAX RPM**	2700					
FRAME	56H	**HZ**	60	**CODE**	N	**CLASS**	F					
SER.F.	1.15	**SF AMP**	3.52/1.76			**PH**	3	**DES**	B			
DE	6205			**ODE**	6203							
LUBRICATION	POLYREX EM											
ID LOGO		**INVERTER TYPE**		**VPWM**		**CHP**	60	**TO**	90	1.5:1		
ID LOGO	**WK2**	0.144	**CT**	6	**TO**	60		10:1				
ID LOGO	**SL HZ**	1.3	**VT**	3	**TO**	60		20:1				
						QR						
YR												

AC Induction Motor Performance Data
Record # 86927
Typical performance - not guaranteed values

Winding: 35WGG004-R007	**Type:** 3520M	**Enclosure:** OPEN

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			1	**Full Load Torque**	2.97 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			3.26/1.63	**Breakdown Torque**	13.68 LB-FT
R.P.M.			1760	**Pull-up Torque**	7.85 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	9.01 LB-FT
NEMA Design Code	B	**KVA Code**	N	**Starting Current**	14.13 A
Service Factor (S.F.)			1.15	**No-load Current**	1.08 A
NEMA Nom. Eff.	85.5	**Power Factor**	67	**Line-line Res. @ 25ºC**	16.9 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	24°C
S.F. Amps			3.52/1.76	**Temp. Rise @ S.F. Load**	27°C
				Locked-rotor Power Factor	61.5
				Rotor inertia	0.144 lb-ft²

Load Characteristics 460 V, 60 Hz, 1 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	30	47	60	69	76	79	73
Efficiency	72.1	81.7	84.7	85.7	85.5	84.7	85.6
Speed	1791	1784	1776	1768	1759	1750	1763
Line amperes	1.11	1.22	1.38	1.59	1.82	2.09	1.73

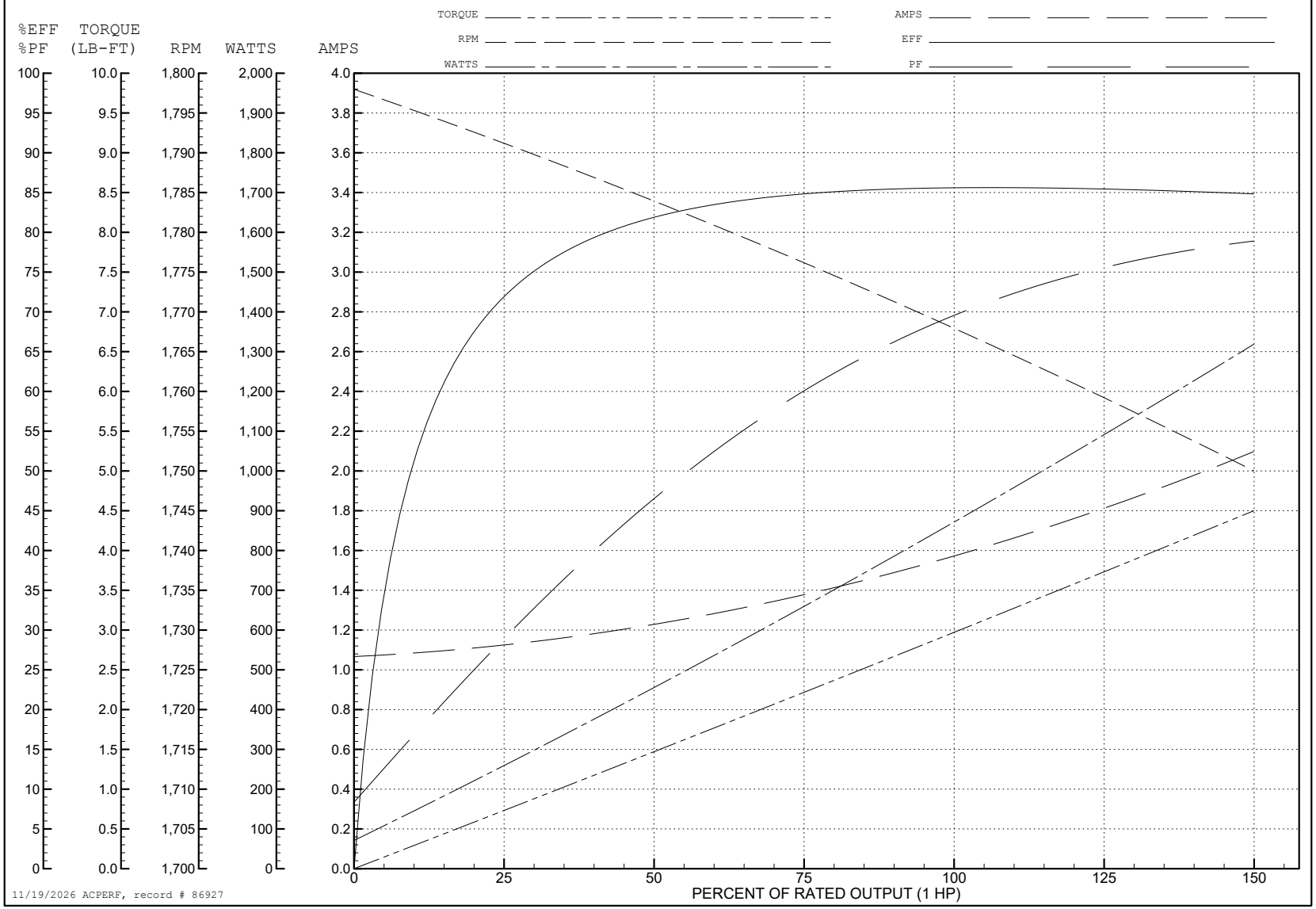
ABB Motors and Mechanical Inc.

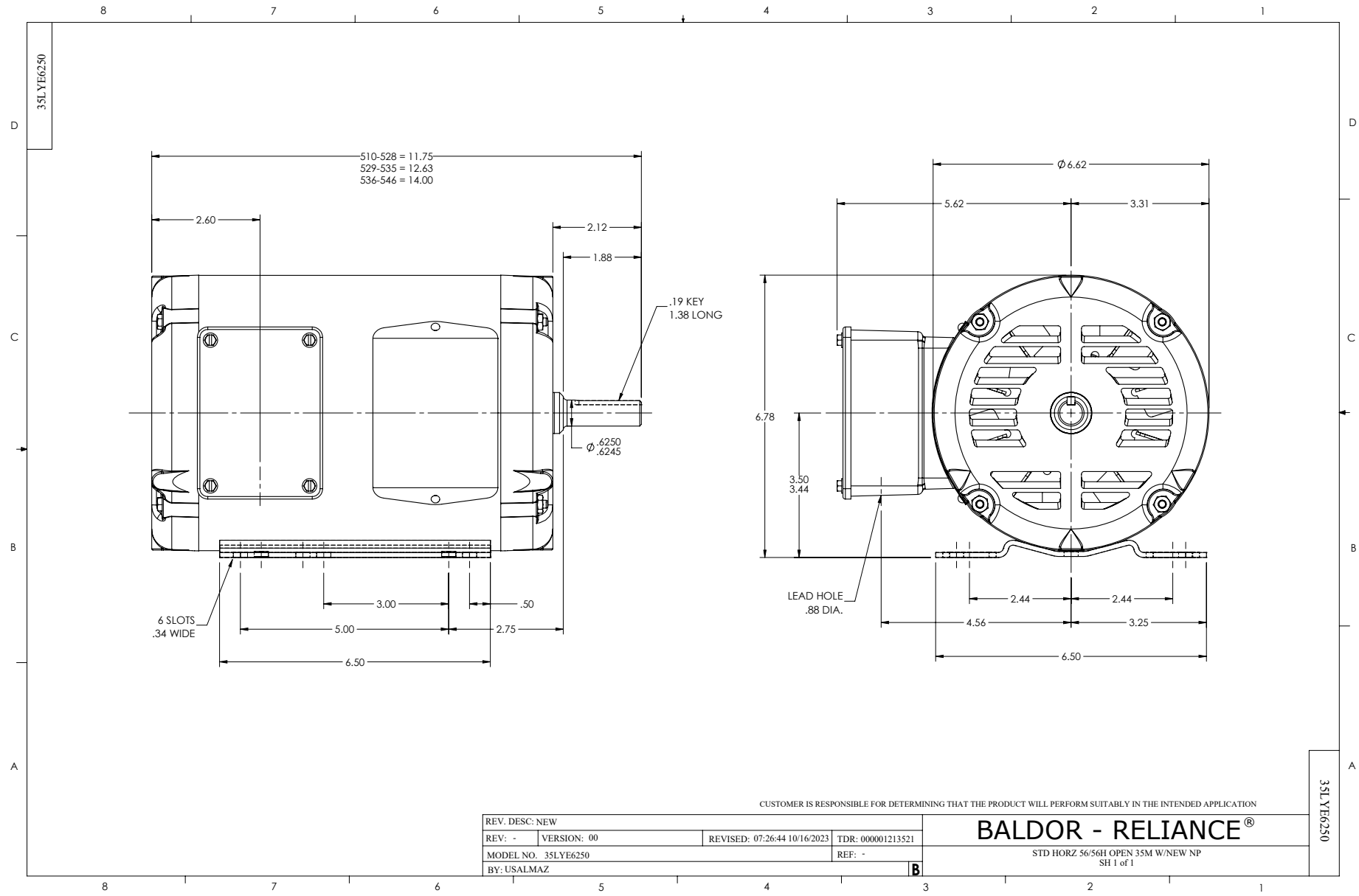
WINDING # 35WGG004

1 HP 3 PH 60 HZ 1760 RPM 460 V 3520M

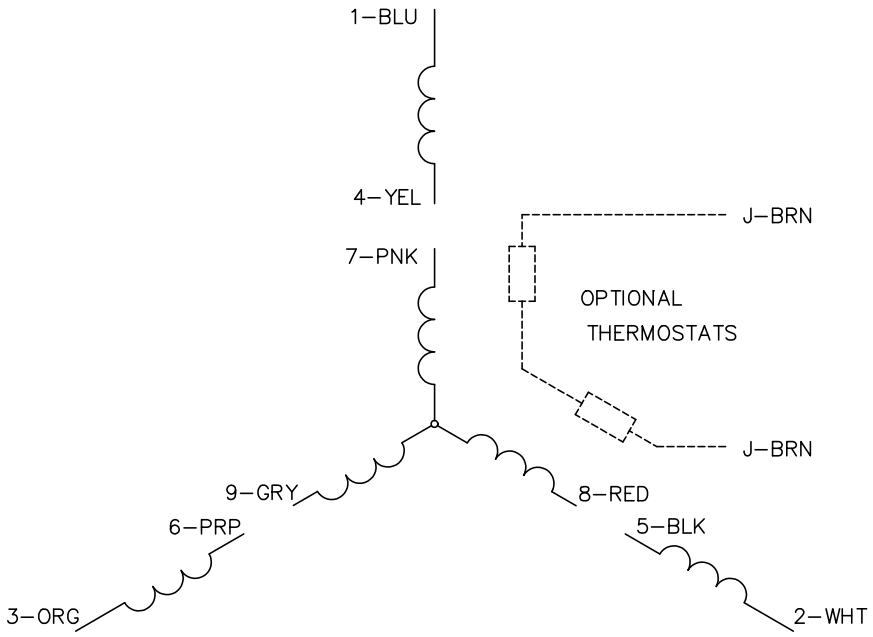
Typical performance - not guaranteed values.

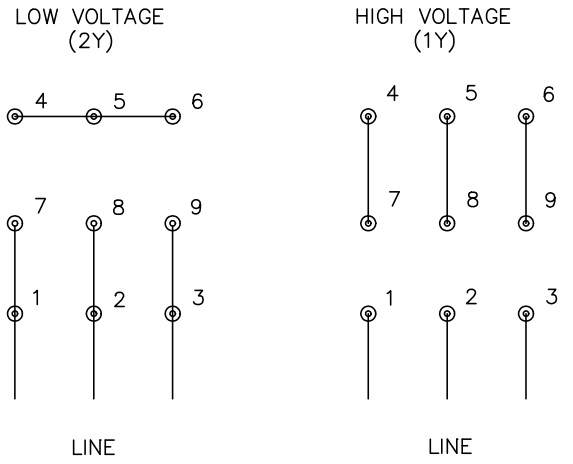
TORQUES(LB-FT): PO=13.68 PU=7.85 LR=9.01 LRA=14.13




35LYE6250
510-528 = 11.75
529-535 = 12.63
536-546 = 14.00
2.60
2.12
1.88
.19 KEY
1.38 LONG
Ø .6250
.6245
6 SLOTS
.34 WIDE
3.00
.50
5.00
2.75
6.50
Ø 6.62
5.62
3.31
6.78
3.50
3.44
LEAD HOLE
.88 DIA.
2.44
2.44
4.56
3.25
6.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: NEW
REV: - VERSION: 00 REVISED: 07:26:44 10/16/2023 TDR: 000001213521
MODEL NO. 35LYE6250 REF: -
BY: USALMAZ B
BALDOR - RELIANCE®
STD HORZ 56/56H OPEN 35M W/NEW NP
SH 1 of 1
35LYE6250

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