Customer information packet

SPM2506T

7.5HP, 1180RPM, 3PH, 60HZ, 254T, 3950M, OPSB, F
Class - None
Division - Not Applicable

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11/19/2026 5:30:03 AM

Specifications

Enclosure	OPSB
Frame	254T
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	7.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	230.0 V @ 60 HZ
Agency Approvals	CURUSEEV
	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	22.000 A @ 230.0 V
	26.000 A @ 208.0 V
	11.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	B
Type	AC
Mech. spec.	39E761
Base	
Status	PRD/A
Elec. spec.	39WGW951
Layout	39LYE761
Eff. date	12-15-2025
CD Diagram	CD0005
Poles	06
Leads	9#12
Proprietary	False
Created date	09-05-2023

High Voltage Full Load Amps	11.0 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Max Speed	1800 rpm
Motor Lead Quantity/Wire Size	9 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3950M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	23.19 IN
Power Factor	70
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	1.25
Shaft Diameter	1.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1180 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 #	SPM2506T				**WGT**	248	**LBS**					
SPEC	39E761W951				**ENCL**	OPSB						
SER #					**CC**	010A	**IP**	23				
HP	7.5			**MAG CUR**	11.4/5.7							
VOLTS	230/460						**NEMA NOM. EFF**	91.7				
AMPS	22/11					**PF**	70					
RATING	40C AMB-CONT											
RPM	1180				**MAX RPM**	1800						
FRAME	254T	**HZ**	60		**CODE**	J	**CLASS**	F				
SER.F.	1.25	**SF AMP**	26.4/13.2			**PH**	3	**DES**	B			
DE	6309			**ODE**	6208							
LUBRICATION	POLYREX EM											
ID LOGO	**INVERTER TYPE**			**VPWM**		**CHP**	60	**TO**	90	1.5:1		
ID LOGO	**WK2**	4.02	**CT**	6	**TO**	60		10:1				
ID LOGO	**SL HZ**	1	**VT**	3	**TO**	60		20:1				
							QR					
YR												

AC Induction Motor Performance Data
Record # 109538
Typical performance - not guaranteed values

Winding: 39WGW951-R008	**Type:** 3950M	**Enclosure:** OPSB

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			7.5	**Full Load Torque**	33.4 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			22/11	**Breakdown Torque**	98 LB-FT
R.P.M.			1180	**Pull-up Torque**	37.9 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	50.7 LB-FT
NEMA Design Code	B	**KVA Code**	J	**Starting Current**	68 A
Service Factor (S.F.)			1.25	**No-load Current**	5.73 A
NEMA Nom. Eff.	91.7	**Power Factor**	70	**Line-line Res. @ 25ºC**	0.927 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	17°C
S.F. Amps			21.8/10.9	**Temp. Rise @ S.F. Load**	22°C
				Locked-rotor Power Factor	25.1
				Rotor inertia	4.02 lb-ft²

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	33	52	64	70	73	73	73
Efficiency	84.6	90.3	91.5	91.7	91.3	90.4	91.3
Speed	1196	1192	1188	1183	1178	1172	1178
Line amperes	6.36	7.6	9.13	11.01	13.19	15.76	13.2

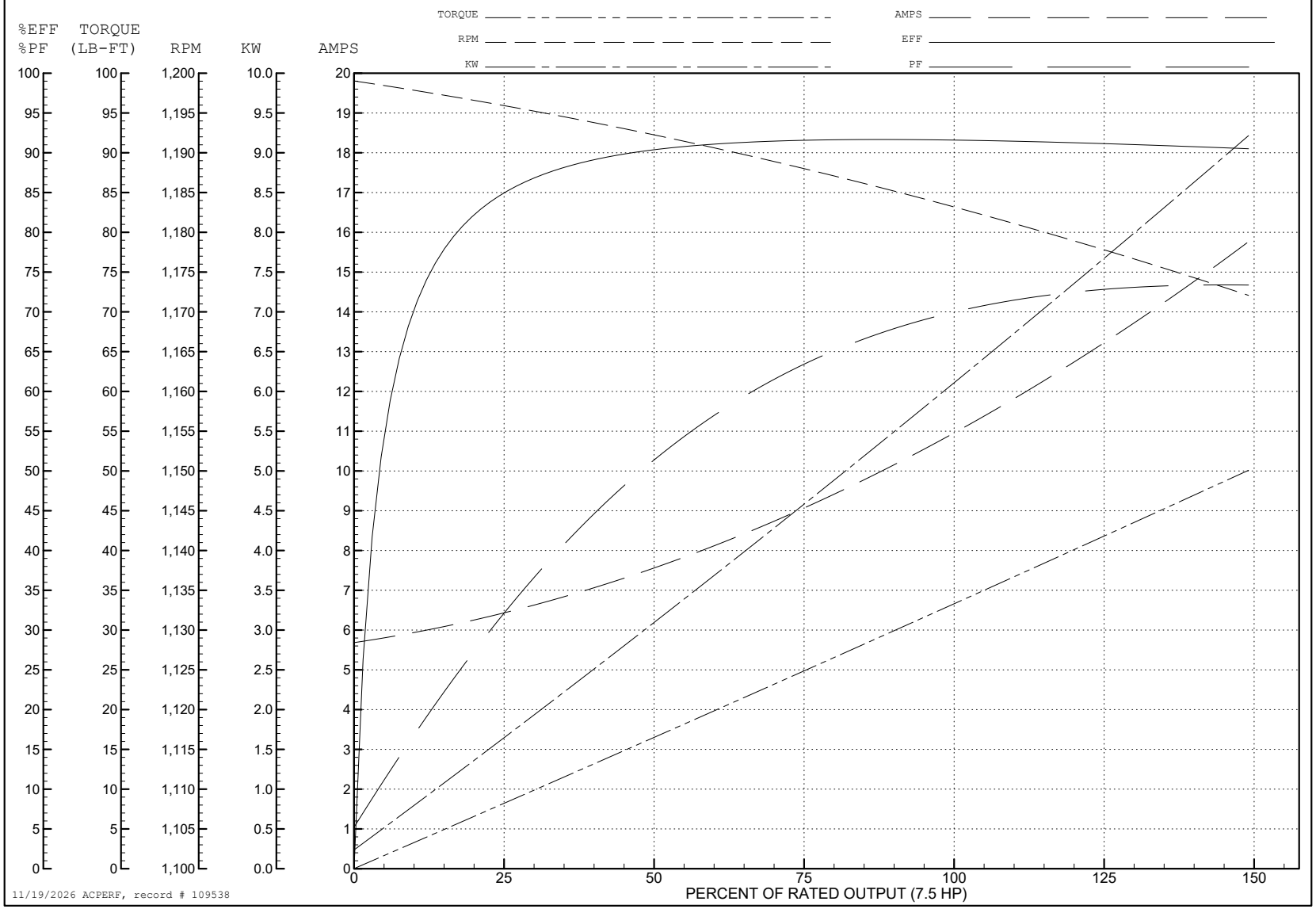
ABB Motors and Mechanical Inc.

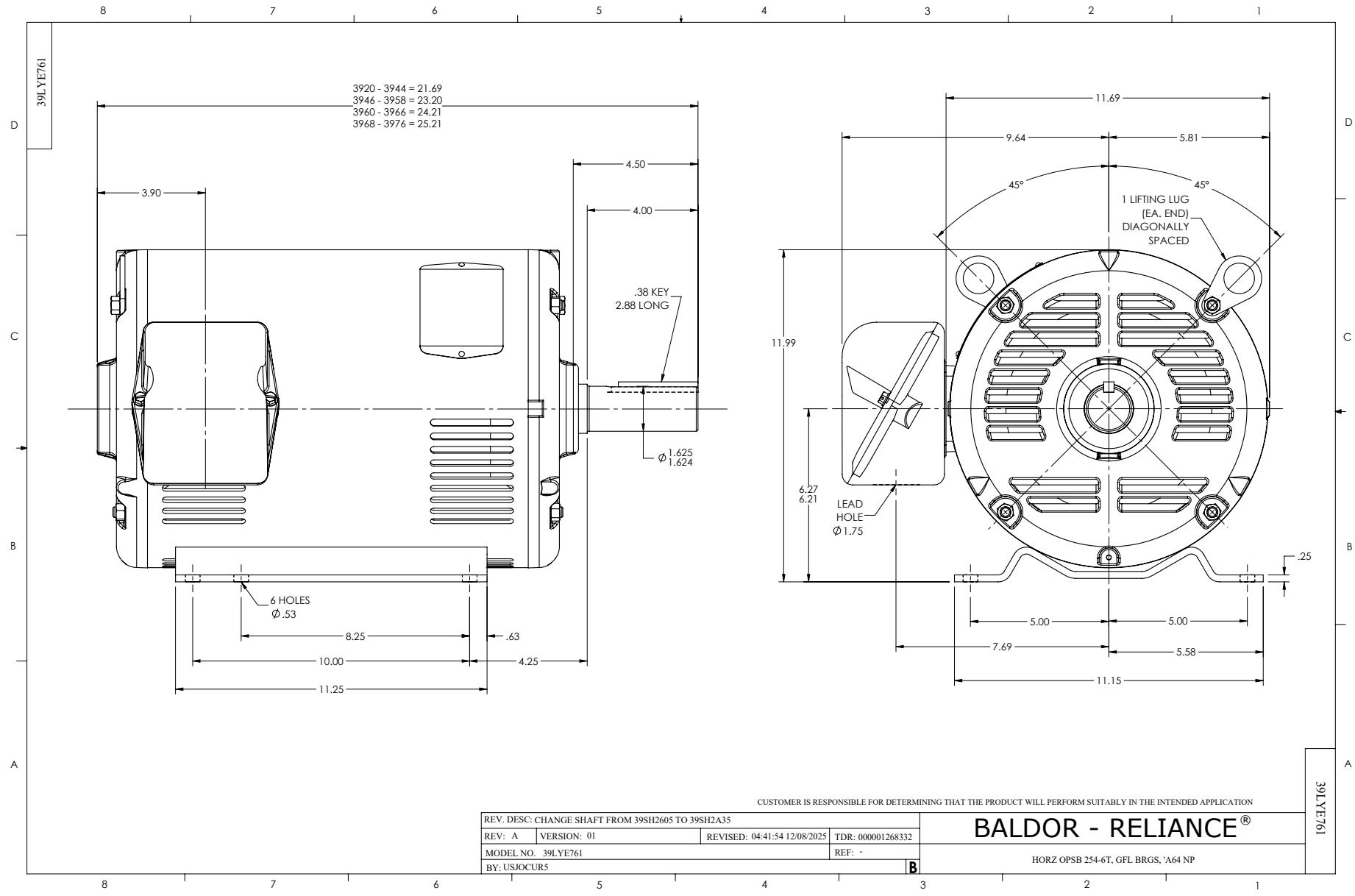
WINDING # 39WGW951

7.5 HP 3 PH 60 HZ 1180 RPM 460 V 3950M

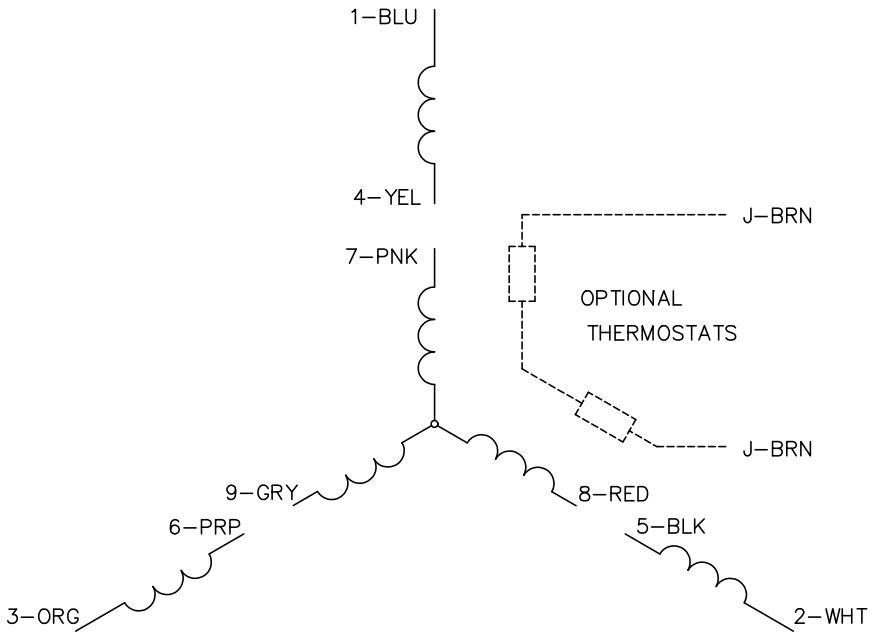
Typical performance - not guaranteed values.

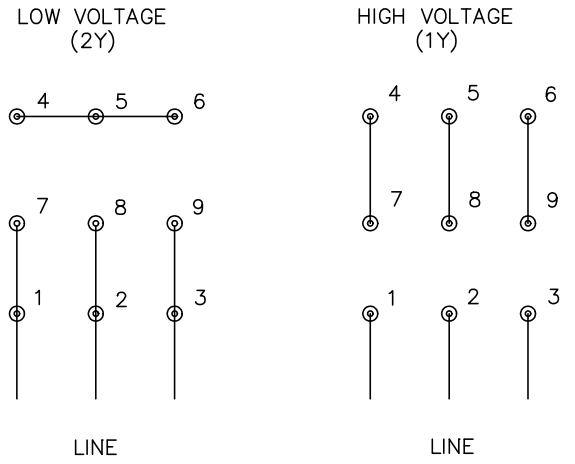
TORQUES(LB-FT): PO=98 PU=37.9 LR=50.7 LRA=68




39LYE761
3920 - 3944 = 21.69
3946 - 3958 = 23.20
3960 - 3966 = 24.21
3968 - 3976 = 25.21
3.90
4.50
4.00
.38 KEY
2.88 LONG
Ø 1.625
1.624
6 HOLES
Ø .53
8.25
.63
10.00
4.25
11.25
11.69
9.64
5.81
45°
45°
1 LIFTING LUG
(EA. END)
DIAGONALLY
SPACED
11.99
6.27
6.21
LEAD
HOLE
Ø 1.75
.25
5.00
5.00
7.69
5.58
11.15
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CHANGE SHAFT FROM 39SH2605 TO 39SH2A35
REV: A
VERSION: 01
REVISED: 04:41:54 12/08/2025
TDR: 000001268332
MODEL NO. 39LYE761
REF: -
BY: USJOCUR5
B
BALDOR - RELIANCE®
HORZ OPSB 254-6T, GFL BRGS, 'A64 NP
39LYE761

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