

ABB BALDOR RELIANCE III

Customer information packet

SPM2511T

10HP, 1180RPM, 3PH, 60HZ, 254T, 3960M, OPSB, F1

Class - None

Division - Not Applicable

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	10.000 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	29.000 A @ 230.0 V 30.000 A @ 208.0 V 14.500 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	92.4 %
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.	39WGY466
Layout	39LYE761
Eff. date	12-15-2025
CD Diagram	CD0180
Poles	06
Leads	9#12
Proprietary	False
Created date	09-05-2023

High Voltage Full Load Amps	14.5 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	3960M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	24.21 IN
Power Factor	69
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

NP4423A01A05L															
CAT #	SPM2511T					WGT	288		LBS						
SPEC	39E761Y466					ENCL	OPSB								
SER #						CC	010A		IP	23					
HP	10		MAG CUR			15.6/7.8									
VOLTS	230/460					NEMA NOM. EFF					92.4				
AMPS	29/14.5					PF	69								
RATING	40C AMB-CONT														
RPM	1180					MAX RPM		1800							
FRAME	254T		HZ	60		CODE	J		CLASS	F					
SER.F.	1.25		SF AMP	35.2/17.6			PH	3		DES	A				
DE	6309			ODE	6208										
LUBRICATION	POLYREX EM														
ID LOGO	INVERTER TYPE				VPWM		CHP	60		TO	90		1.5:1		
ID LOGO	WK2	4.82		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 # 109534

Typical performance - not guaranteed values

Winding: 39WGY466-R002				Type: 3960M		Enclosure: OPSB	
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		10		Full Load Torque		44.09 LB-FT	
Volts		230/460		Start Configuration		direct on line	
Full Load Amps		29/14.5		Breakdown Torque		154 LB-FT	
R.P.M.		1180		Pull-up Torque		55.7 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		67.8 LB-FT	
NEMA Design Code		A	KVA Code	J	Starting Current		94.3 A
Service Factor (S.F.)		1.25		No-load Current		7.75 A	
NEMA Nom. Eff.		92.4	Power Factor	69	Line-line Res. @ 25°C		0.675 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		17°C	
S.F. Amps		32/16		Temp. Rise @ S.F. Load		22°C	
				Locked-rotor Power Factor		24.9	
				Rotor inertia		4.82 lb-ft²	

Load Characteristics 460 V, 60 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	33	52	63	69	73	74	73
Efficiency	84.1	90.1	91.9	92.4	92	91.5	92
Speed	1196	1192	1189	1184	1179	1174	1179
Line amperes	8.43	9.92	12.06	14.52	17.56	20.59	17.6

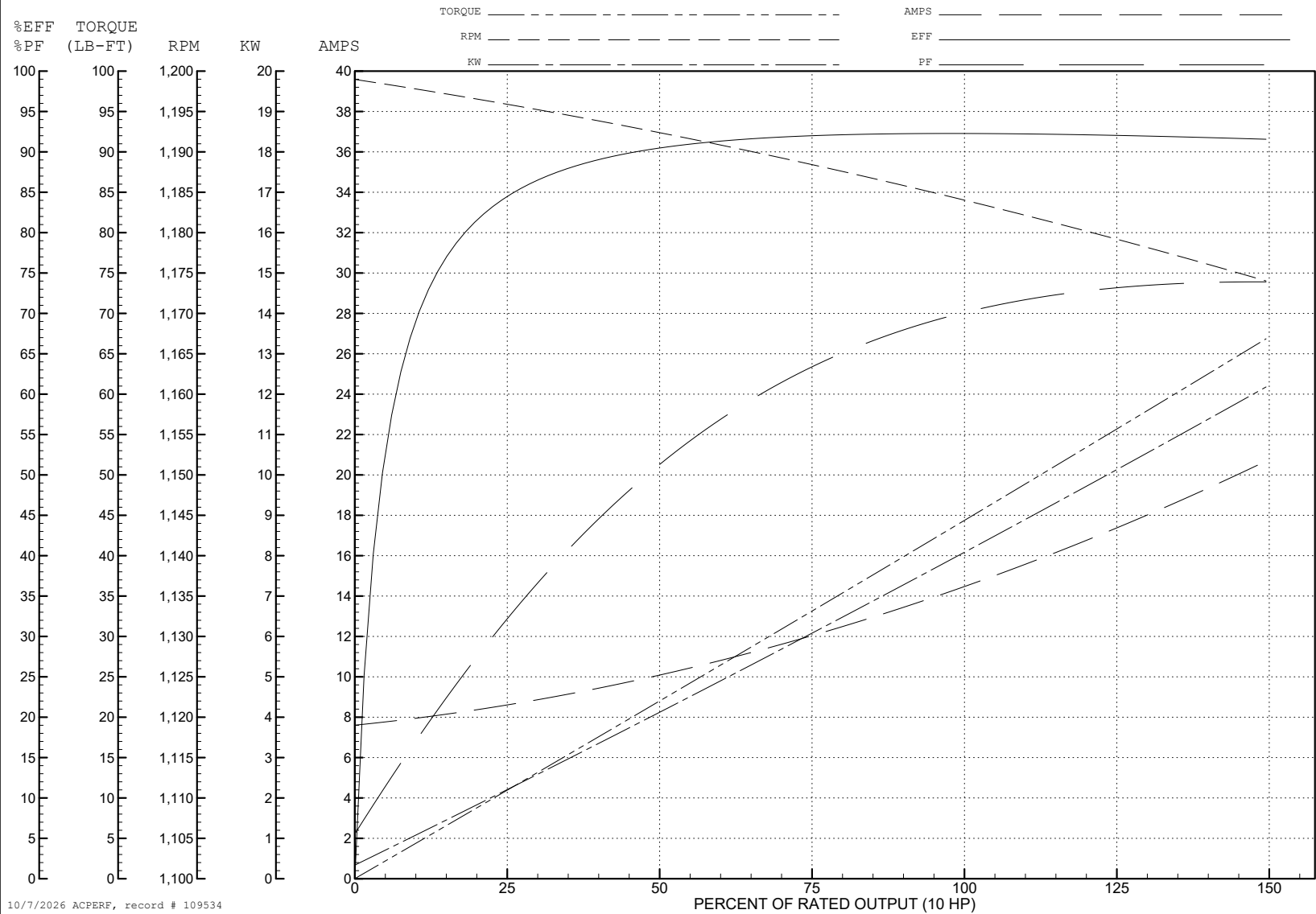
ABB Motors and Mechanical Inc.

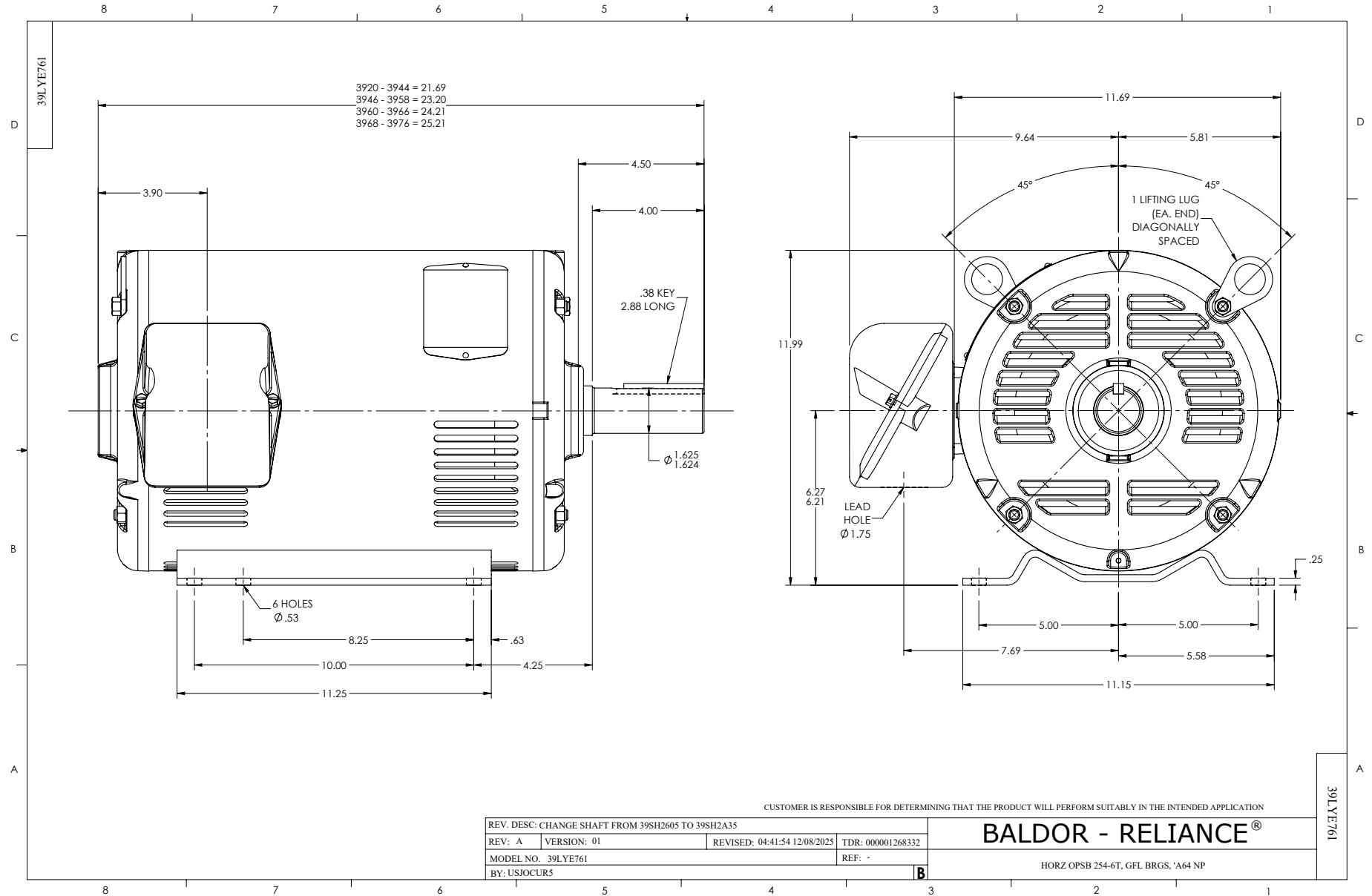
WINDING # 39WGY466

Typical performance - not guaranteed values.

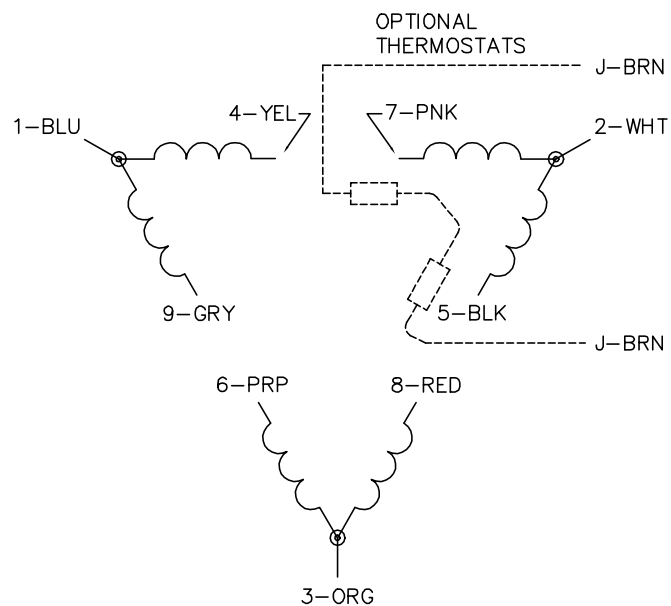
10 HP 3 PH 60 HZ 1180 RPM 460 V 3960M

TORQUES (LB-FT): PO=154 PU=55.7 LR=67.8 LRA=94.3

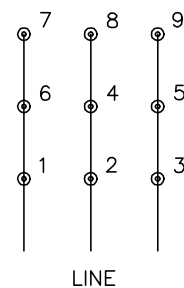




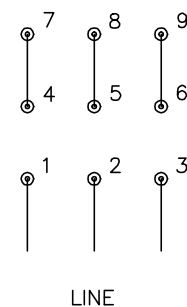
CD0180



LOW VOLTAGE
(2D)



HIGH VOLTAGE
(1D)



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.

REV. DESC: ADD CLASS CONN00000007

REV. LTR: D

VERSION: 01

TDR: 000001099922

FILE: \AAA\00005\148

REVISED: 10: 25: 29 02/19/2019

BY: ENBRIRO

MTL: —



BALDOR - RELIANCE®

3PH, DV, 9 LEADS, DELTA CONNECTION

SH 1 of 1

CD0180