BALDOR • RELIANCE

Customer information packet

EJMM2514T-G

28M 2P OPSB HOR 254JM SE
Class - None
Division - Not Applicable

2/16/2025 10:14:08 PM

Specifications

Enclosure	OPSB
Frame	254JM
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	20.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	CSA
	CSA EEV
	NEMA PREMIUM
	UR
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	51.000 A @ 208.0 V
	47.000 A @ 230.0 V
	23.500 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None

Part detail

Revision	L
Type	AC
Mech. spec.	39E447
Base	
Status	PRD/A
Elec. spec.	39WGX101
Layout	39LYE447
Eff. date	06-27-2024
CD Diagram	CD0180
Poles	02
Leads	9#10
Proprietary	False
Created date	04-03-2019

Heater Indicator	No Heater
High Voltage Full Load Amps	23.5 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3928M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	23.19 IN
Power Factor	88
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	Included
Service Factor	1.15
Shaft Diameter	1.250 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	3510 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

NP3554LUA												
CAT.NO.	EJMM2514T-G			**P/N**						**ENCL**	OPSB	
SPEC.	39E447X101G1	**CC**	010A	**FRAME**	254JM			**SER.NO.**				
HP	20		**CLASS**	F	**HZ**	60						
RPM	3510		**PH**	3	**DES**	A						
VOLTS	230/460			**CODE**	G		**ODE BRG**	6208	**DE BRG**	6309		
AMPS	47/23.5											
RATING	40C AMB-CONT			**NEMA-NOM-EFF**	91			**GREASE**	POLYREX EM			
PF	88	**SER.F.**	1.15				**CT30-60(2:1) VT3-60(20:1)**					
USABLE AT	50HZ 20HP 190/380V 56/28A			SF1.0								
HTR-VOLTS		**HTR-AMPS**			**MAX. SPACE HEATER TEMP.**							

AC Induction Motor Performance Data
Record # 13049
Typical performance - not guaranteed values

Winding: 39WGX101-R004 **Type:** 3928M **Enclosure:** OPSB

Nameplate Data		
Rated Output (HP)		20
Volts		230/460
Full Load Amps		47/23.5
R.P.M.		3510
Hz	60 **Phase**	3
NEMA Design Code	B **KVA Code**	G
Service Factor (S.F.)		1.15
NEMA Nom. Eff.	91 **Power Factor**	88
Rating - Duty		40C AMB-CONT
S.F. Amps		

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	29.6 LB-FT
Start Configuration	direct on line
Breakdown Torque	111 LB-FT
Pull-up Torque	36.1 LB-FT
Locked-rotor Torque	50.6 LB-FT
Starting Current	153 A
No-load Current	8.61 A
Line-line Res. @ 25ºC	0.512 Ω
Temp. Rise @ Rated Load	44°C
Temp. Rise @ S.F. Load	54°C
Locked-rotor Power Factor	30
Rotor inertia	0.715 lb-ft²

Load Characteristics 460 V, 60 Hz, 20 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	52	74	83	87	89	89	88
Efficiency	84.7	90.1	91.2	91	90.1	89.1	90.5
Speed	3581	3563	3544	3522	3496	3472	3506
Line amperes	10.2	13.9	18.1	23.3	29.1	35	26.78

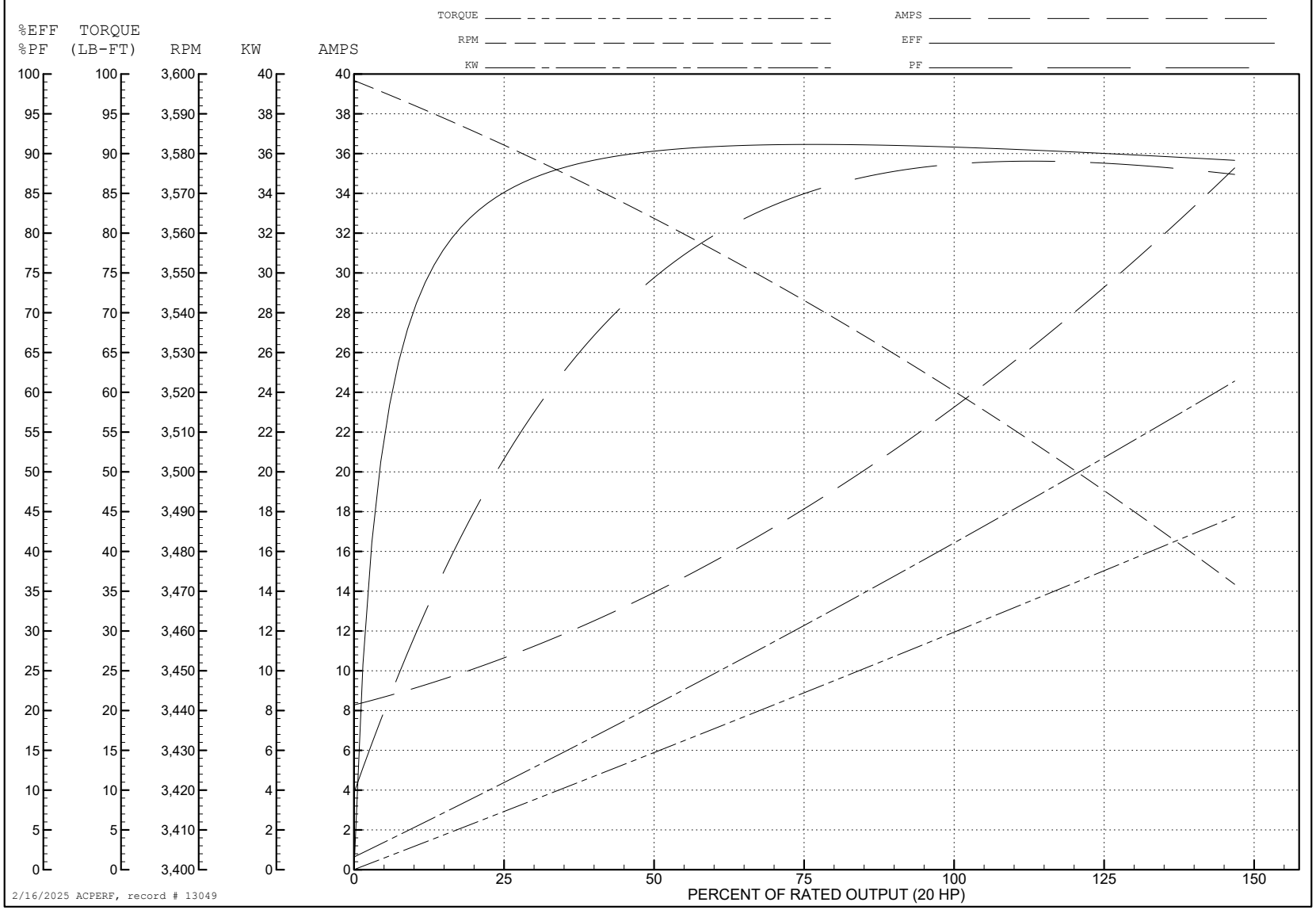
ABB Motors and Mechanical Inc.

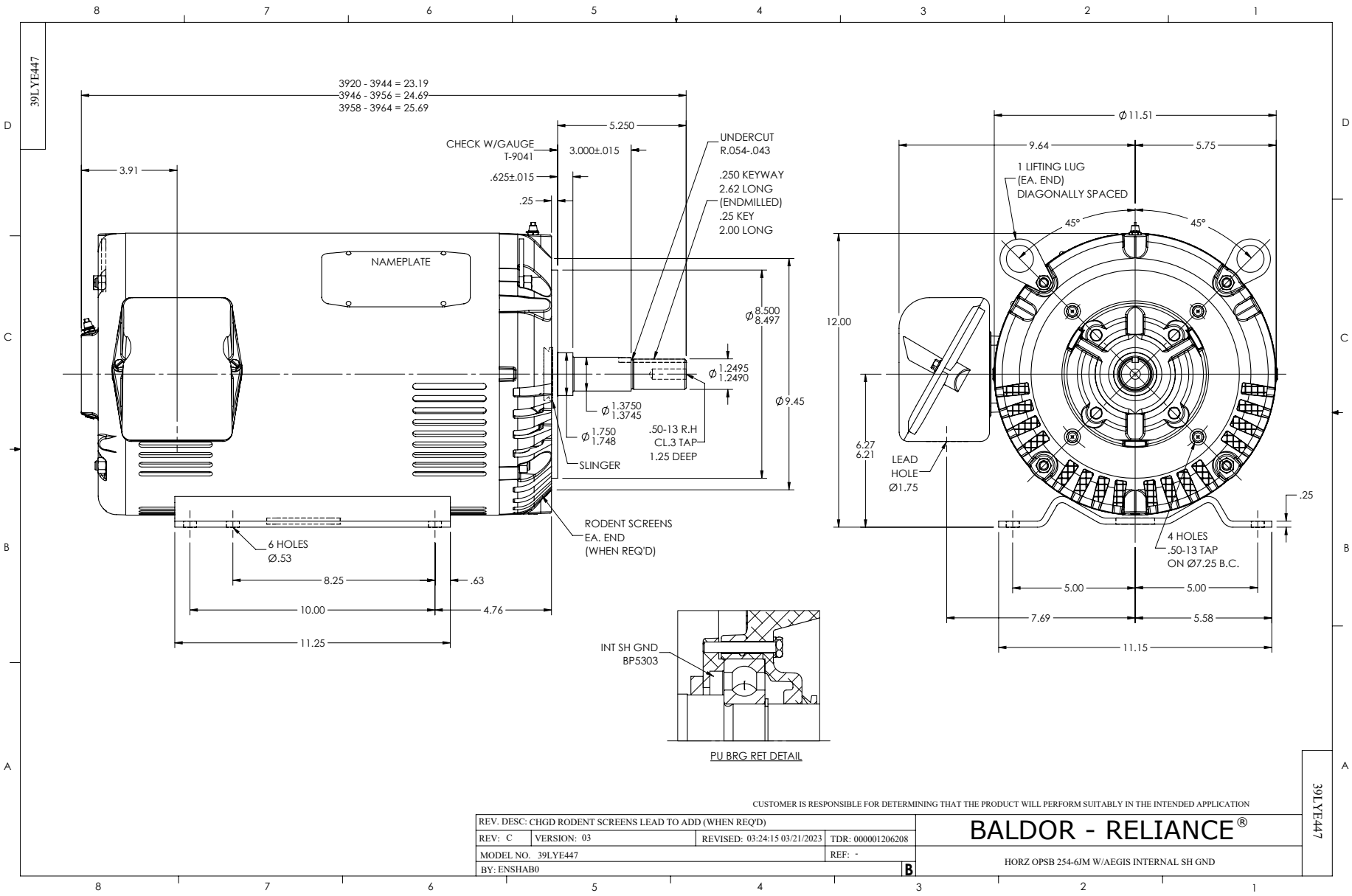
WINDING # 39WGX101

20 HP 3 PH 60 HZ 3510 RPM 460 V 3928M

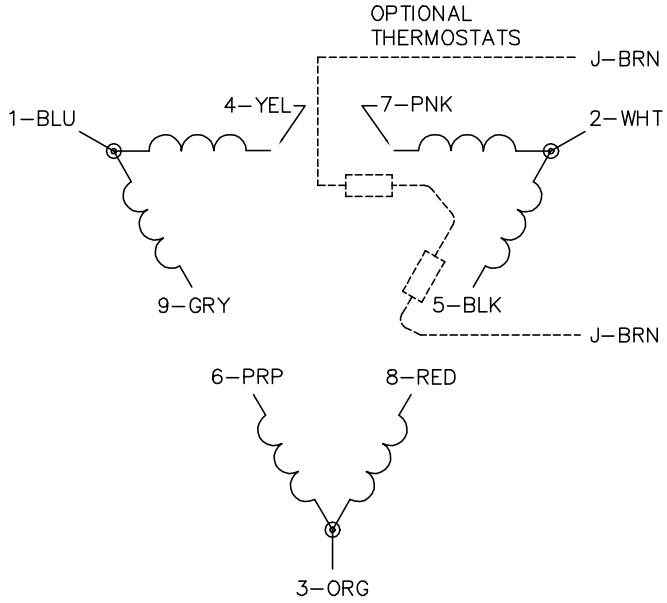
Typical performance - not guaranteed values.

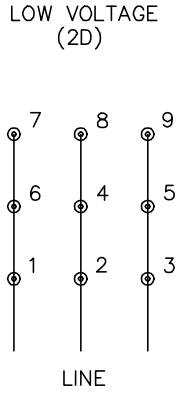
TORQUES(LB-FT): PO=111 PU=36.1 LR=50.6 LRA=153

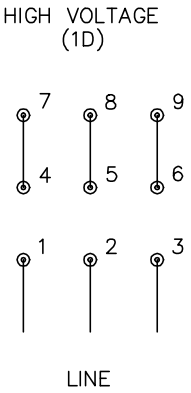



39LYE447
3920 - 3944 = 23.19
3946 - 3956 = 24.69
3958 - 3964 = 25.69
5.250
CHECK W/GAUGE T-9041
3.000±.015
.625±.015
.25
UNDERCUT R.054-.043
.250 KEYWAY
2.62 LONG
(ENDMILLED)
.25 KEY
2.00 LONG
3.91
NAMEPLATE
Ø 8.500
8.497
Ø 1.2495
1.2490
Ø 1.3750
1.3745
Ø 1.750
1.748
.50-13 R.H
CL.3 TAP
1.25 DEEP
Ø 9.45
SLINGER
RODENT SCREENS
EA. END
(WHEN REQ'D)
6 HOLES
Ø.53
8.25
.63
10.00
4.76
11.25
Ø 11.51
9.64
5.75
1 LIFTING LUG
(EA. END)
DIAGONALLY SPACED
45°
45°
12.00
6.27
6.21
LEAD
HOLE
Ø1.75
.25
4 HOLES
.50-13 TAP
ON Ø7.25 B.C.
5.00
5.00
7.69
5.58
11.15
INT SH GND
BP5303
PU BRG RET DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CHGD RODENT SCREENS LEAD TO ADD (WHEN REQ'D)
REV: C
VERSION: 03
REVISED: 03:24:15 03/21/2023
TDR: 000001206208
MODEL NO. 39LYE447
REF: -
BY: ENSHAB0
B
BALDOR - RELIANCE®
HORZ OPSB 254-6JM W/AEGIS INTERNAL SH GND
39LYE447

CD0180







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.

CD0180

REV. DESC: ADD CLASS CONN00000007		
REV. LTR: D	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\148	REVISED: 10:25:29 02/19/2019	BY: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

3PH, DV, 9 LEADS, DELTA CONNECTION

SH 1 of 1