ABB BALDOR RELIANCE

Customer information packet

EJMM2514T

20HP, 3510RPM, 3PH, 60HZ, 254JM, 3928M, OPSB, F
Class - None
Division - Not Applicable

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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 EEV
	NEMA PREMIUM
	UR
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	23.500 A @ 460.0 V
	47.000 A @ 230.0 V
	50.000 A @ 208.0 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
Heater Indicator	No Heater
High Voltage Full Load Amps	23.5 a

Part Detail

Revision	H
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	39WGX101
Layout	39LYK062
Eff. date	06-26-2024
CD Diagram	CD0180
Poles	02
Leads	9#10
Proprietary	False
Created date	02-12-2021

Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
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 Face Code	C-Face
Rodent Screen	Included
Service Factor	1.15
Shaft Diameter	1.250 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
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

NP1259LUA									
CAT.NO.	EJMM2514T								
SPEC.	39-0000-0372								
HP	20								
VOLTS	230/460								
AMPS	47/23.5								
R.P.M.	3510								
FRAME	254JM	**HZ**	60			**PH**	3		
SER.F.	1.15	**CODE**	G	**DES**	A	**CLASS**	F		
NEMA NOM. EFF.	91	**P.F.**	88						
RATING	40C AMB-CONT								
CC	010A								
DE	6309	**ODE**	6208						
ENCL	OPSB	**SN**							
USABLE AT	50HZ 20HP 190/380V 56/28A								SF1.0

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

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

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			20	**Full Load Torque**	29.6 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			47/23.5	**Breakdown Torque**	111 LB-FT
R.P.M.			3510	**Pull-up Torque**	36.1 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	50.6 LB-FT
NEMA Design Code	B	**KVA Code**	G	**Starting Current**	153 A
Service Factor (S.F.)			1.15	**No-load Current**	8.61 A
NEMA Nom. Eff.	91	**Power Factor**	88	**Line-line Res. @ 25ºC**	0.512 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	44°C
S.F. Amps				**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

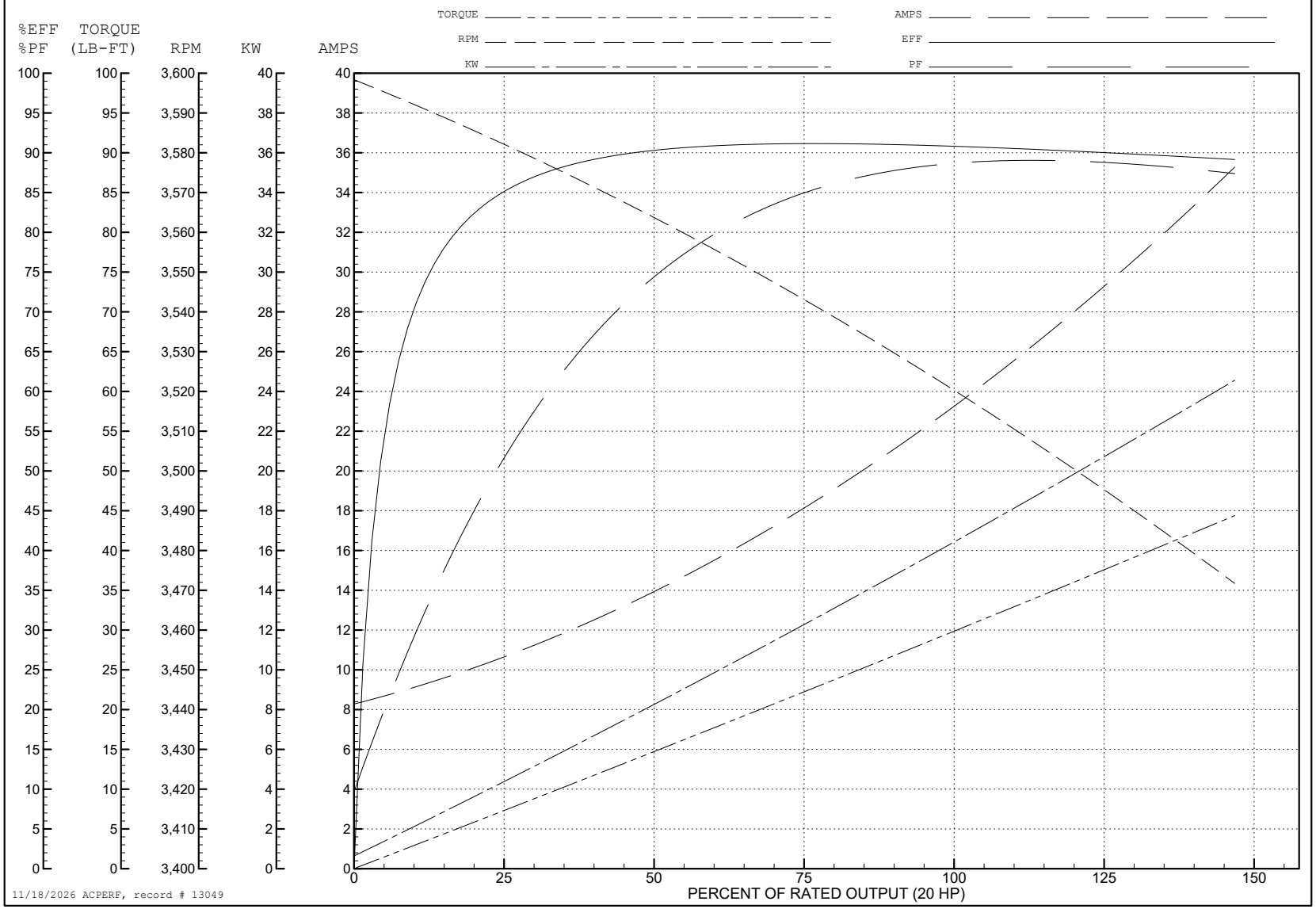
ABB Motors and Mechanical Inc.

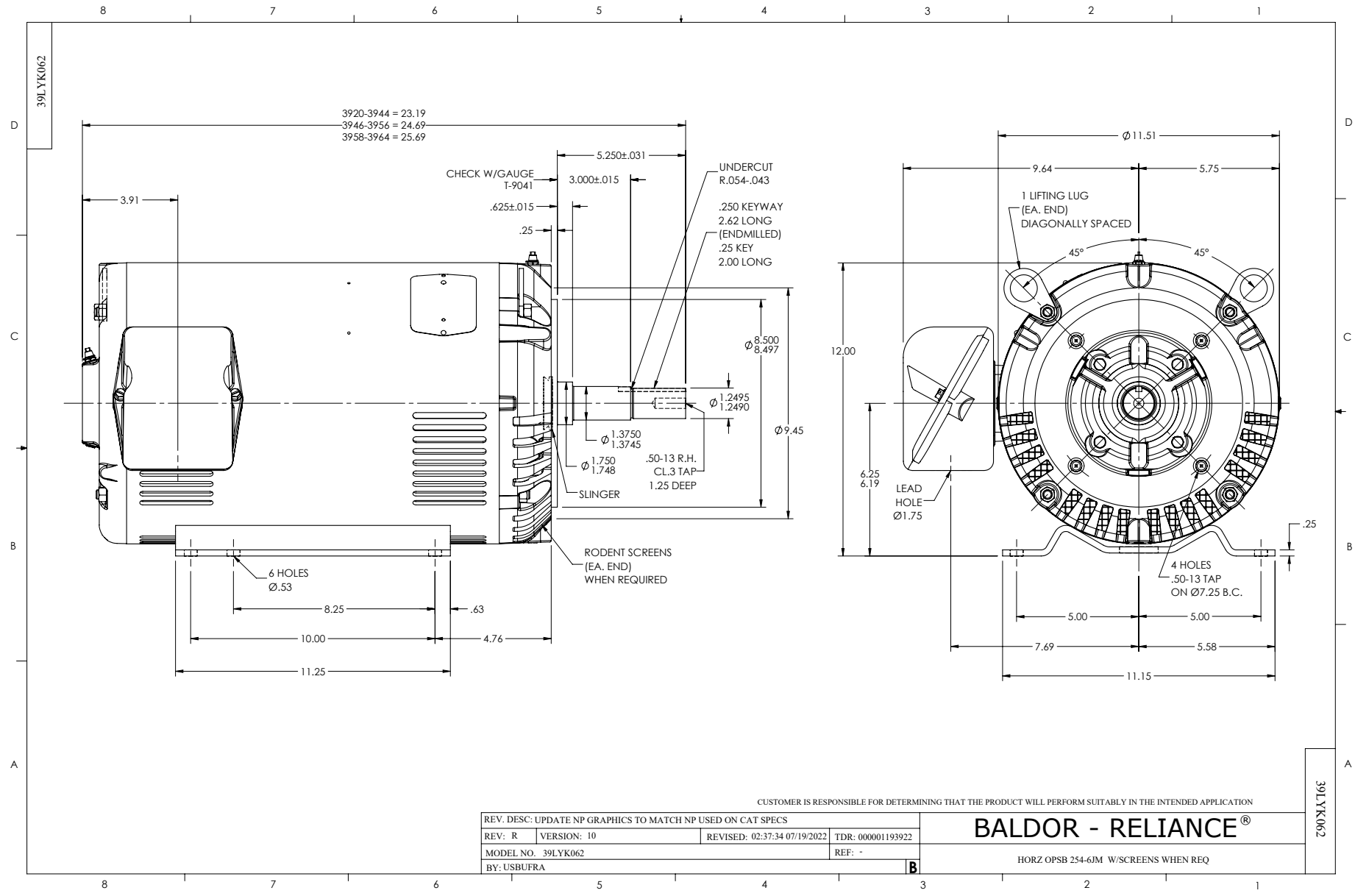
WINDING # 39WGX101

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

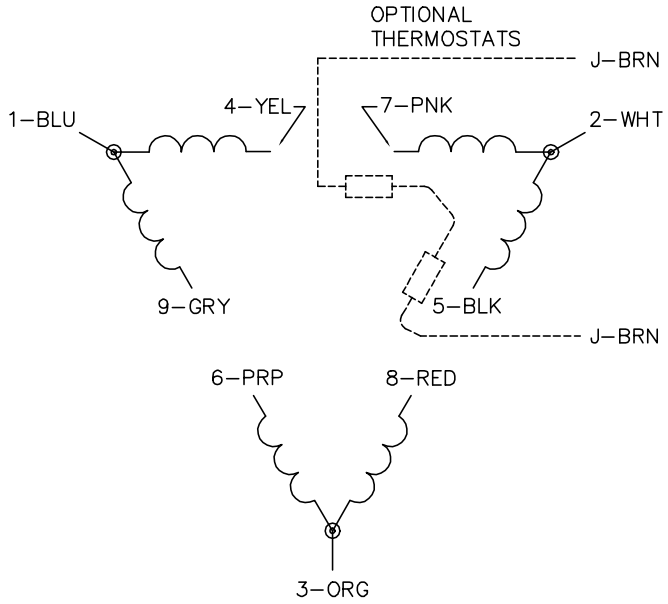
Typical performance - not guaranteed values.

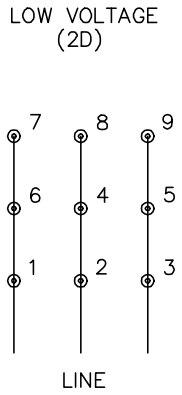
TORQUES(LB-FT): PO=111 PU=36.1 LR=50.6 LRA=153

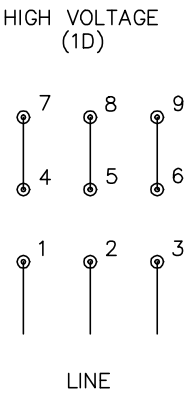



39LYK062
3920-3944 = 23.19
3946-3956 = 24.69
3958-3964 = 25.69
5.250±.031
CHECK W/GAUGE T-9041
3.000±.015
.625±.015
.25
3.91
UNDERCUT R.054-.043
.250 KEYWAY 2.62 LONG (ENDMILLED) .25 KEY 2.00 LONG
Ø8.500 8.497
Ø1.2495 1.2490
Ø1.3750 1.3745
Ø1.750 1.748
.50-13 R.H. CL.3 TAP 1.25 DEEP
Ø9.45
SLINGER
RODENT SCREENS (EA. END) WHEN REQUIRED
6 HOLES Ø.53
8.25
.63
10.00
4.76
11.25
Ø11.51
9.64
5.75
1 LIFTING LUG (EA. END) DIAGONALLY SPACED
45°
45°
12.00
6.25 6.19
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
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: UPDATE NP GRAPHICS TO MATCH NP USED ON CAT SPECS
REV: R
VERSION: 10
REVISED: 02:37:34 07/19/2022
TDR: 000001193922
MODEL NO. 39LYK062
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
HORZ OPSB 254-6JM W/SCREENS WHEN REQ
39LYK062

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: –		

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3PH, DV, 9 LEADS, DELTA CONNECTION

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