ABB BALDOR RELIANCE

Customer information packet

EJMM2534T

30HP, 3510RPM, 3PH, 60HZ, 284JM, 3948M, OPSB, F
Class -
Division - Not Applicable

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Specifications

Enclosure	OPSB
Frame	284JM
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	30.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	230.0 V @ 60 HZ
Agency Approvals	CSA EEV
	UR
	CSA
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	33.000 A @ 460.0 V
	66.000 A @ 230.0 V
	74.000 A @ 208.0 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 Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	U
Type	AC
Mech. spec.	39E312
Base	
Status	PRD/A
Elec. spec.	39WGX286
Layout	39LYE312
Eff. date	06-26-2024
CD Diagram	CD0005
Poles	02
Leads	9#8
Proprietary	False
Created date	06-22-2009

High Voltage Full Load Amps	33.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	F
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 8 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3948M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	26.56 IN
Power Factor	92
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	1.375 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No 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

NP2138LUA												
CAT.NO.	EJMM2534T			**P/N**				**ENCLOSURE**	OPSB			
SPEC.	39E312X286	**CC**	010A	**FRAME**	284JM	**S/N**						
HP	30	**CLASS**	F	**HZ**	60							
RPM	3510	**PH**	3	**DES**	B							
VOLT	230/460	**KVA-CODE**	F	**ODE BRG**	6208	**DE BRG**	6312					
AMP	66/33											
RATING	40C AMB-CONT	**GREASE**	POLYREX EM									
NEMA-NOM-EFF	91.7	**PF**	92	**SER.F.**	1.15							
	50HZ 30HP 190/380V 82/41A					SF1.0						
HTR-VOLTS		**HTR-AMPS**										

AC Induction Motor Performance Data
Record # 13125
Typical performance - not guaranteed values

Winding: 39WGX286-R001	**Type:** 3948M	**Enclosure:** OPSB

Nameplate Data			
Rated Output (HP)			30
Volts			230/460
Full Load Amps			66/33
R.P.M.			3510
Hz	60	**Phase**	3
NEMA Design Code	B	**KVA Code**	F
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	91.7	**Power Factor**	92
Rating - Duty			40C AMB-CONT
S.F. Amps			

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	45 LB-FT
Start Configuration	direct on line
Breakdown Torque	148 LB-FT
Pull-up Torque	53 LB-FT
Locked-rotor Torque	67.5 LB-FT
Starting Current	207 A
No-load Current	7.51 A
Line-line Res. @ 25ºC	0.342 Ω
Temp. Rise @ Rated Load	38°C
Temp. Rise @ S.F. Load	48°C
Locked-rotor Power Factor	28
Rotor inertia	1.23 LB-FT2

Load Characteristics 460 V, 60 Hz, 30 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	70	87	91	92	92	92	92
Efficiency	89.4	92.5	92.6	91.8	90.7	89	91.1
Speed	3577	3555	3531	3505	3478	3443	3489
Line amperes	10.9	17.2	24.9	33.1	41.7	51.8	38.26

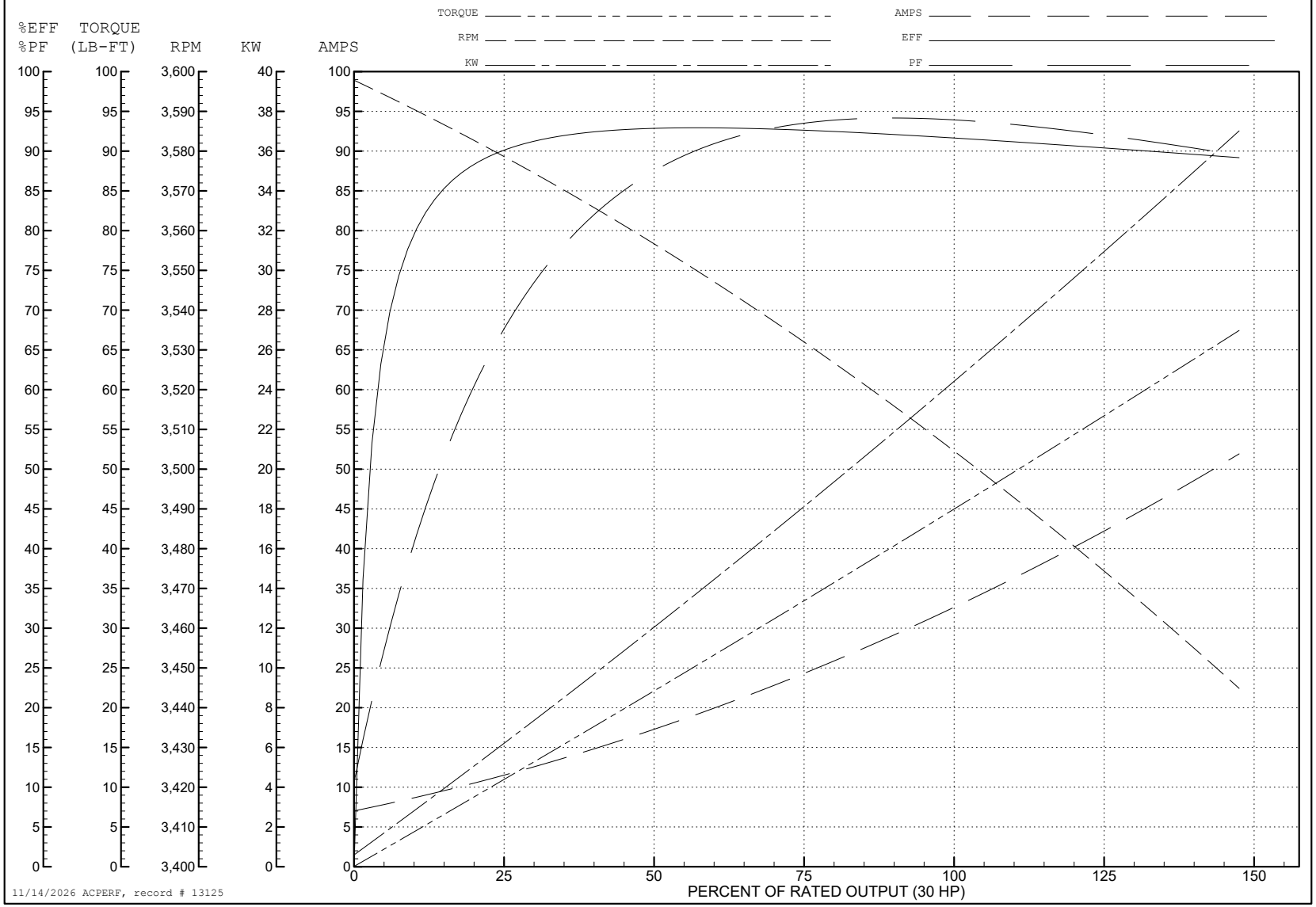
ABB Motors and Mechanical Inc.

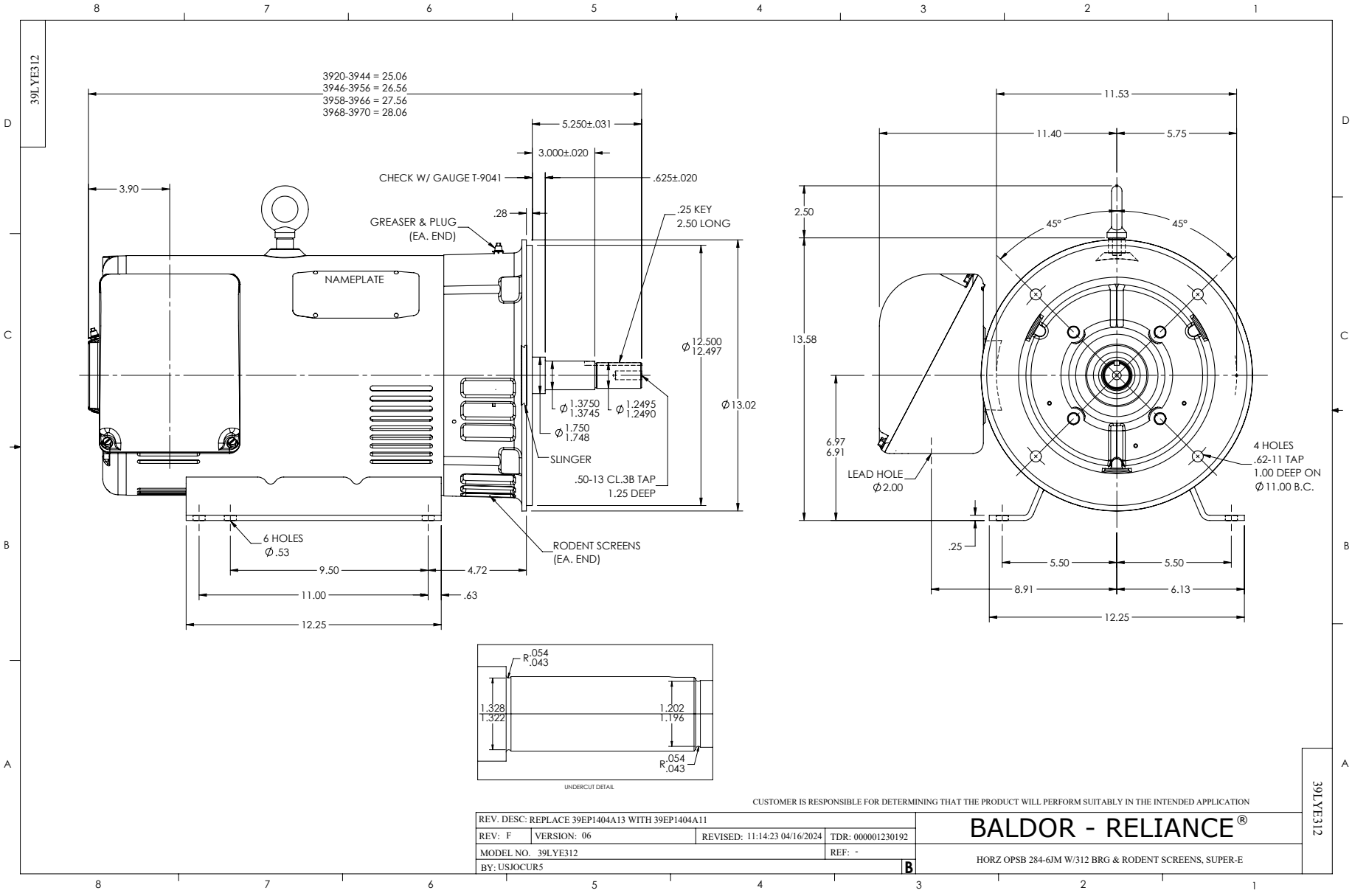
WINDING # 39WGX286

30 HP 3 PH 60 HZ 3510 RPM 460 V 3948M

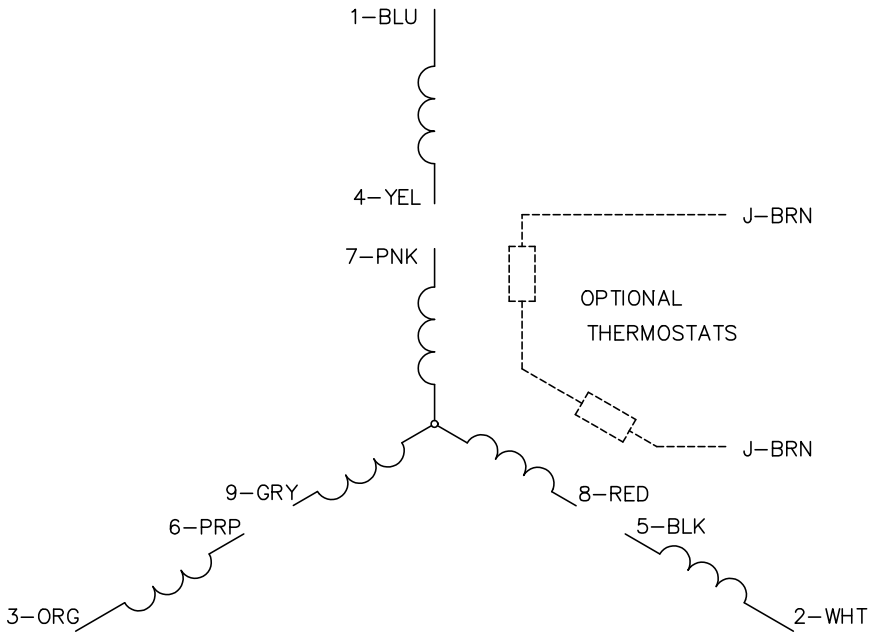
Typical performance - not guaranteed values.

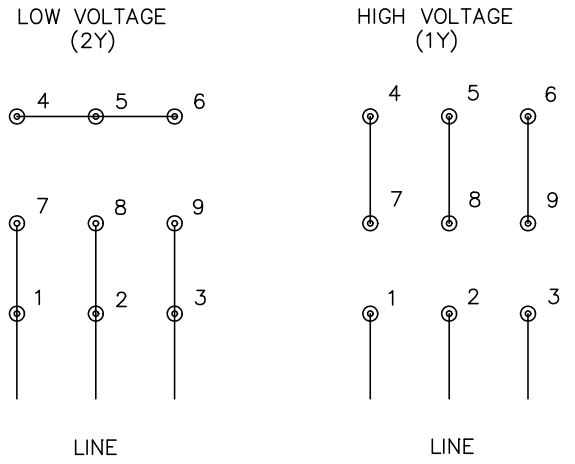
TORQUES(LB-FT): PO=148 PU=53 LR=67.5 LRA=207




39LYE312
3920-3944 = 25.06
3946-3956 = 26.56
3958-3966 = 27.56
3968-3970 = 28.06
5.250±.031
3.000±.020
CHECK W/ GAUGE T-9041
.625±.020
3.90
.28
GREASER & PLUG (EA. END)
.25 KEY 2.50 LONG
NAMEPLATE
Ø 12.500 12.497
Ø 13.02
Ø 1.3750 1.3745
Ø 1.2495 1.2490
Ø 1.750 1.748
SLINGER
.50-13 CL.3B TAP 1.25 DEEP
6 HOLES Ø.53
RODENT SCREENS (EA. END)
9.50
4.72
11.00
.63
12.25
11.53
11.40
5.75
2.50
45°
45°
13.58
6.97
6.91
LEAD HOLE Ø2.00
4 HOLES .62-11 TAP 1.00 DEEP ON Ø11.00 B.C.
.25
5.50
5.50
8.91
6.13
12.25
R.054 .043
1.328 1.322
1.202 1.196
R.054 .043
UNDERCUT DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: REPLACE 39EP1404A13 WITH 39EP1404A11
REV: F
VERSION: 06
REVISED: 11:14:23 04/16/2024
TDR: 000001230192
MODEL NO. 39LYE312
REF: -
BY: USJOCUR5
B
BALDOR - RELIANCE®
HORZ OPSB 284-6JM W/312 BRG & RODENT SCREENS, SUPER-E
39LYE312

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