ABB BALDOR RELIANCE

Customer information packet

EM2550T

100HP, 3540RPM, 3PH, 60HZ, 365TS, 4266M, OPSB

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Specifications

Enclosure	OPSB
Frame	365TS
Frame Material	Steel
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	100.000 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	CURUSEEV
	NEMA PREMIUM
	NEMA PREMIUM (OLD LOGO)
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	220.000 A @ 230.0 V
	244.000 A @ 208.0 V
	110.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.6 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	110.0 a

Part Detail

Revision	R
Type	AC
Mech. spec.	42E212
Base	
Status	PRD/A
Elec. spec.	42WGW937
Layout	42LYE212
Eff. date	11-29-2023
CD Diagram	CD0180
Poles	02
Leads	9#4
Proprietary	False
Created date	05-14-2012

Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 4 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	4266M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	27.81 IN
Power Factor	91
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	1.15
Shaft Diameter	1.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3540 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.	EM2550T			**P/N**				**ENCLOSURE**	OPSB			
SPEC.	42E212W937	**CC**	010A	**FRAME**	365TS	**S/N**						
HP	100			**CLASS**	F	**HZ**	60					
RPM	3540			**PH**	3	**DES**	A					
VOLT	230/460			**KVA-CODE**	G	**ODE BRG**	6311	**DE BRG**	6313			
AMP	220/110											
RATING	40C AMB-CONT			**GREASE**	POLYREX EM							
NEMA-NOM-EFF	93.6	**PF**	91	**SER.F.**	1.15							
	50HZ 75HP 190/380V 200/100A					SF 1.0						
HTR-VOLTS		**HTR-AMPS**										

Accessories

Part number	Description	Multiplier
42-1400	C FACE KIT	A8

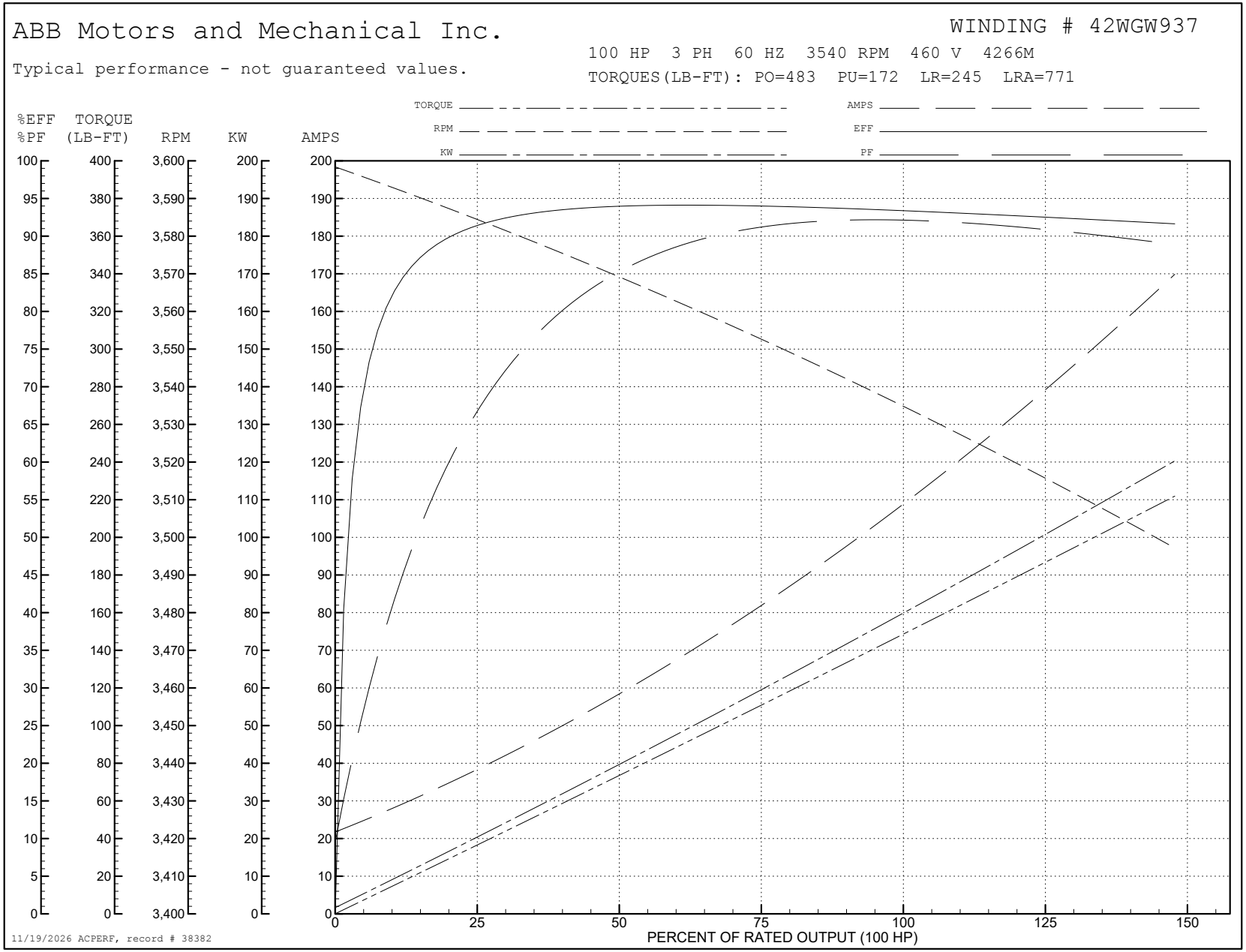
AC Induction Motor Performance Data
Record # 38382
Typical performance - not guaranteed values

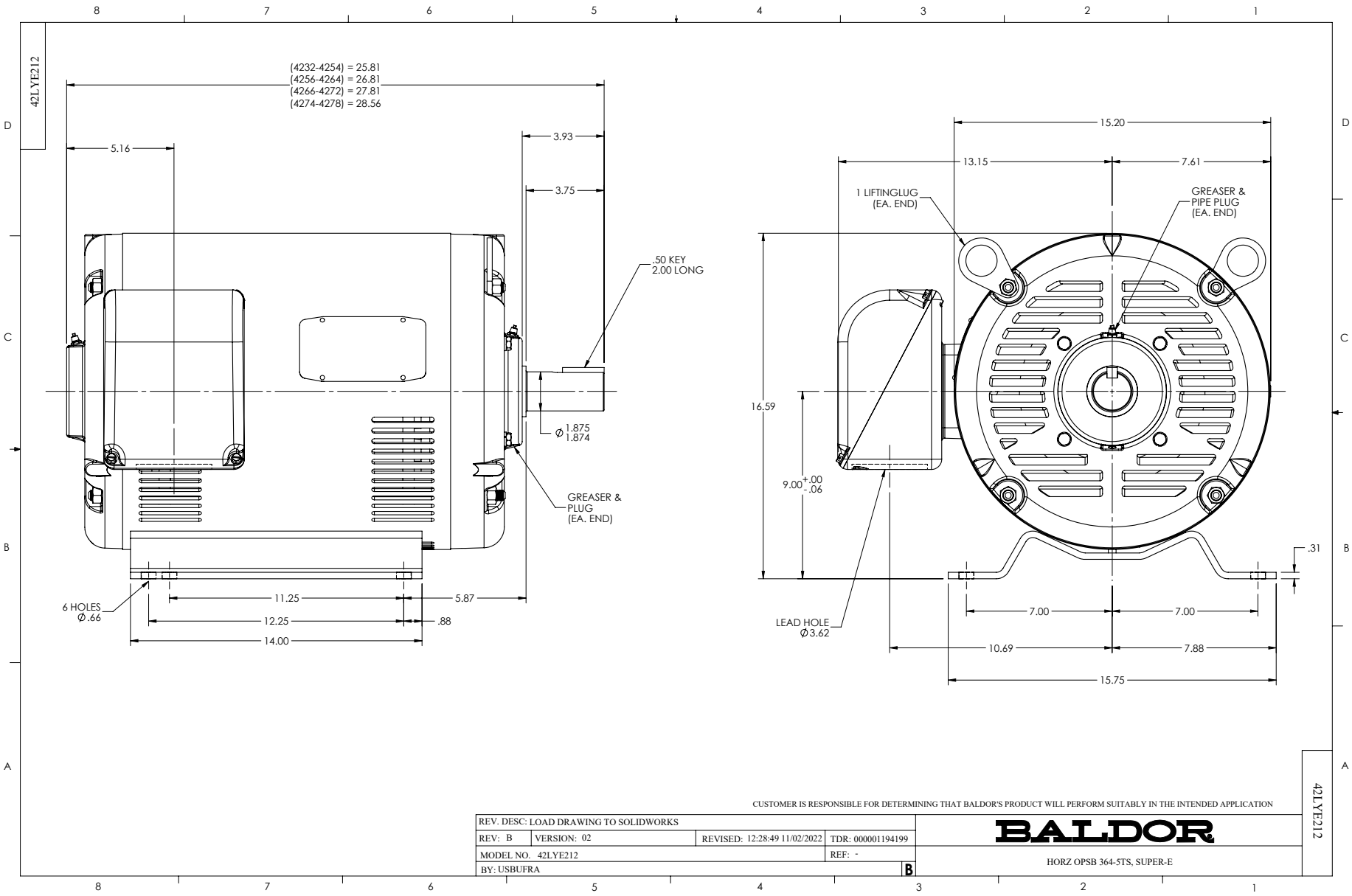
Winding: 42WGW937-R001	**Type:** 4266M	**Enclosure:** OPSB

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			100	**Full Load Torque**	148 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			220/110	**Breakdown Torque**	483 LB-FT
R.P.M.			3540	**Pull-up Torque**	172 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	245 LB-FT
NEMA Design Code	B	**KVA Code**	G	**Starting Current**	771 A
Service Factor (S.F.)			1.15	**No-load Current**	23.5 A
NEMA Nom. Eff.	93.6	**Power Factor**	91	**Line-line Res. @ 25ºC**	0.0539 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	45°C
S.F. Amps				**Temp. Rise @ S.F. Load**	55°C
				Locked-rotor Power Factor	21
				Rotor inertia	5.16 LB-FT2

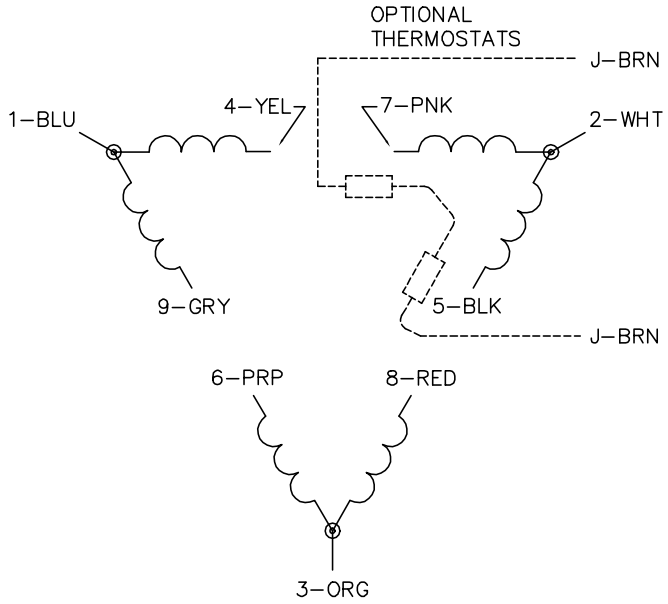
Load Characteristics 460 V, 60 Hz, 100 HP

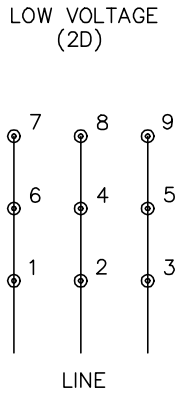
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	72	87	90	91	91	89	91
Efficiency	91.3	93.9	94	93.6	92.7	91.6	93
Speed	3584	3568	3552	3536	3518	3496	3525
Line amperes	36.1	57.7	82.8	110	138	169	127

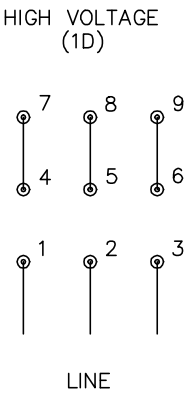

ABB Motors and Mechanical Inc.
WINDING # 42WGW937
100 HP 3 PH 60 HZ 3540 RPM 460 V 4266M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=483 PU=172 LR=245 LRA=771
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (100 HP)
11/19/2026 ACPERF, record # 38382


42LYE212
(4232-4254) = 25.81
(4256-4264) = 26.81
(4266-4272) = 27.81
(4274-4278) = 28.56
5.16
3.93
3.75
.50 KEY
2.00 LONG
Ø 1.875
1.874
GREASER &
PLUG
(EA. END)
6 HOLES
Ø .66
11.25
5.87
12.25
.88
14.00
15.20
13.15
7.61
1 LIFTINGLUG
(EA. END)
GREASER &
PIPE PLUG
(EA. END)
16.59
9.00 +.00 -.06
.31
LEAD HOLE
Ø 3.62
7.00
7.00
10.69
7.88
15.75
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD DRAWING TO SOLIDWORKS
REV: B
VERSION: 02
REVISED: 12:28:49 11/02/2022
TDR: 000001194199
MODEL NO. 42LYE212
REF: -
BY: USBUFRA
B
BALDOR
HORZ OPSB 364-5TS, SUPER-E
42LYE212

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