

# **ABB BALDOR RELIANCE III**



## **Customer information packet** EM2550T

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

**Specifications**

<b>Enclosure</b>	OPSB
<b>Frame</b>	365TS
<b>Frame Material</b>	Steel
<b>Frequency</b>	60.00 Hz
<b>Motor Letter Type</b>	Three Phase
<b>Output @ Frequency</b>	100.000 HP @ 60 HZ
<b>Phase</b>	3
<b>Synchronous Speed @ Frequency</b>	3600 RPM @ 60 HZ
<b>Voltage @ Frequency</b>	230.0 V @ 60 HZ 460.0 V @ 60 HZ
<b>Agency Approvals</b>	CURUSEEV NEMA PREMIUM NEMA PREMIUM (OLD LOGO)
<b>Ambient Temperature</b>	40 °C
<b>Auxiliary Box</b>	NO AUXILLARY BOX
<b>Auxiliary Box Lead Termination</b>	None
<b>Base Indicator</b>	Rigid
<b>Bearing Grease Type</b>	Polyrex EM (-20F +300F)
<b>Blower</b>	None
<b>Current @ Voltage</b>	220.000 A @ 230.0 V 244.000 A @ 208.0 V 110.000 A @ 460.0 V
<b>Design Code</b>	A
<b>Drip Cover</b>	No Drip Cover
<b>Duty Rating</b>	CONT
<b>Efficiency @ 100% Load</b>	93.6 %
<b>Electrically Isolated Bearing</b>	Not Electrically Isolated
<b>Feedback Device</b>	NO FEEDBACK
<b>Front Face Code</b>	Standard
<b>Front Shaft Indicator</b>	None
<b>Heater Indicator</b>	No Heater
<b>High Voltage Full Load Amps</b>	110.0 a

**Part Detail**

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

<b>Insulation Class</b>	F
<b>Inverter Code</b>	Inverter Ready
<b>KVA Code</b>	G
<b>Lifting Lugs</b>	Standard Lifting Lugs
<b>Locked Bearing Indicator</b>	Locked Bearing
<b>Motor Lead Exit</b>	Ko Box
<b>Motor Lead Quantity/Wire Size</b>	9 @ 4 AWG
<b>Motor Lead Termination</b>	Flying Leads
<b>Motor Standards</b>	NEMA
<b>Motor Type</b>	4266M
<b>Mounting Arrangement</b>	F1
<b>Number of Poles</b>	2
<b>Overall Length</b>	27.81 IN
<b>Power Factor</b>	91
<b>Product Family</b>	General Purpose
<b>Pulley End Bearing Type</b>	Ball
<b>Pulley Face Code</b>	Standard
<b>Pulley Shaft Indicator</b>	Standard
<b>Rodent Screen</b>	None
<b>RoHS Status</b>	ROHS COMPLIANT
<b>Service Factor</b>	1.15
<b>Shaft Diameter</b>	1.875 IN
<b>Shaft Extension Location</b>	Pulley End
<b>Shaft Ground Indicator</b>	No Shaft Grounding
<b>Shaft Rotation</b>	Reversible
<b>Shaft Slinger Indicator</b>	No Slinger
<b>Speed</b>	3540 rpm
<b>Speed Code</b>	Single Speed
<b>Starting Method</b>	Direct on line
<b>Thermal Device - Bearing</b>	None
<b>Thermal Device - Winding</b>	None
<b>Vibration Sensor Indicator</b>	No Vibration Sensor
<b>Winding Thermal 1</b>	None
<b>Winding Thermal 2</b>	None

**Nameplate**

<b>NP2138LUA</b>										
<b>CAT.NO.</b>	EM2550T		<b>P/N</b>				<b>ENCLOSURE</b>	OPSB		
<b>SPEC.</b>	42E212W937	<b>CC</b>	010A	<b>FRAME</b>	365TS	<b>S/N</b>				
<b>HP</b>	100	<b>CLASS</b>	F	<b>HZ</b>	60					
<b>RPM</b>	3540	<b>PH</b>	3	<b>DES</b>	A					
<b>VOLT</b>	230/460	<b>KVA-CODE</b>	G	<b>ODE BRG</b>	6311	<b>DE BRG</b>	6313			
<b>AMP</b>	220/110									
<b>RATING</b>	40C AMB-CONT	<b>GREASE</b>	POLYREX EM							
<b>NEMA-NOM-EFF</b>	93.6	<b>PF</b>	91	<b>SER.F.</b>	1.15					
	50HZ 75HP 190/380V 200/100A					SF 1.0				
<b>HTR-VOLTS</b>	<b>HTR-AMPS</b>									

**Accessories**

<b>Part number</b>	<b>Description</b>	<b>Multiplier</b>
42-1400	C FACE KIT	A8

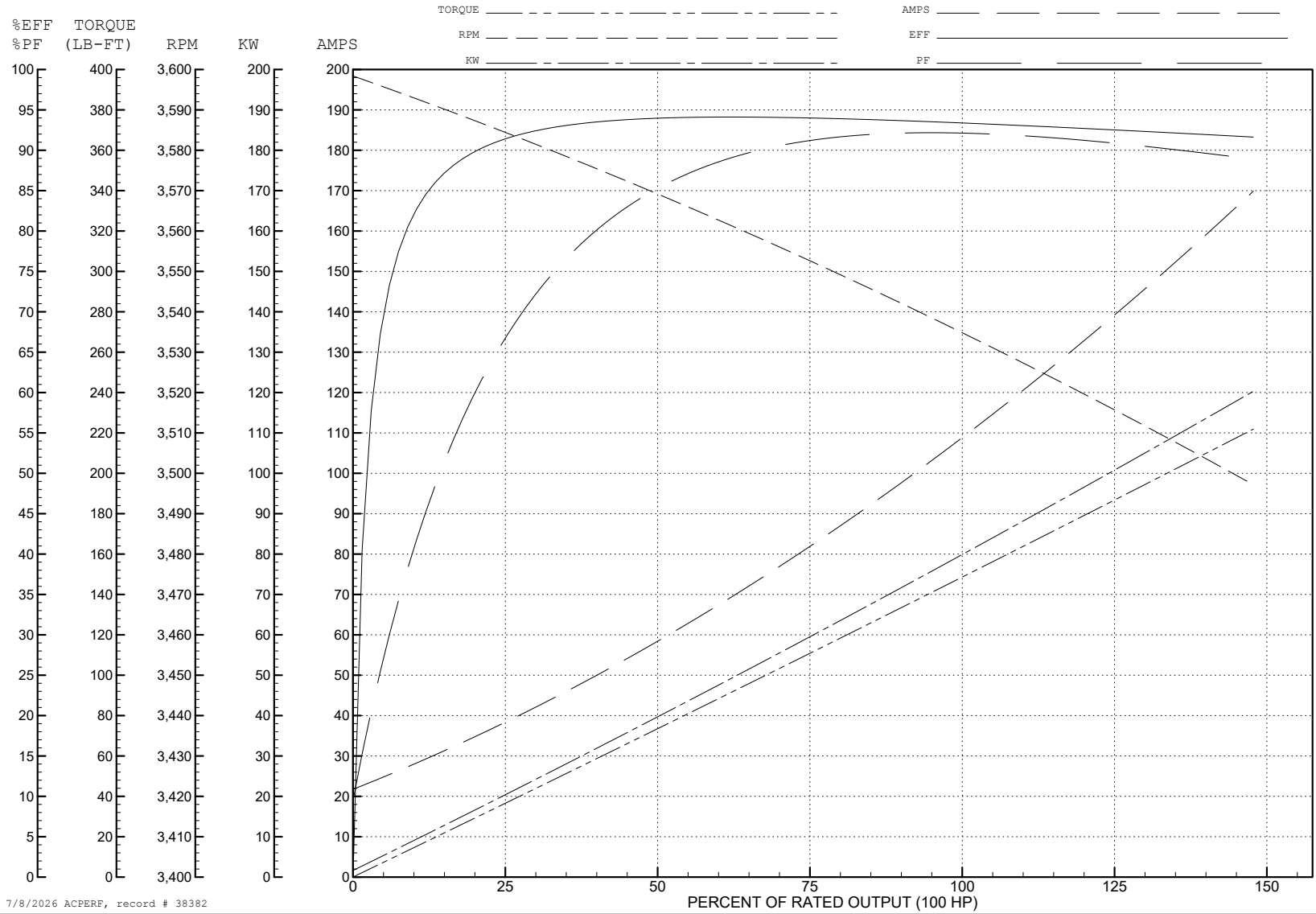
ABB Motors and Mechanical Inc.

WINDING # 42WGW937

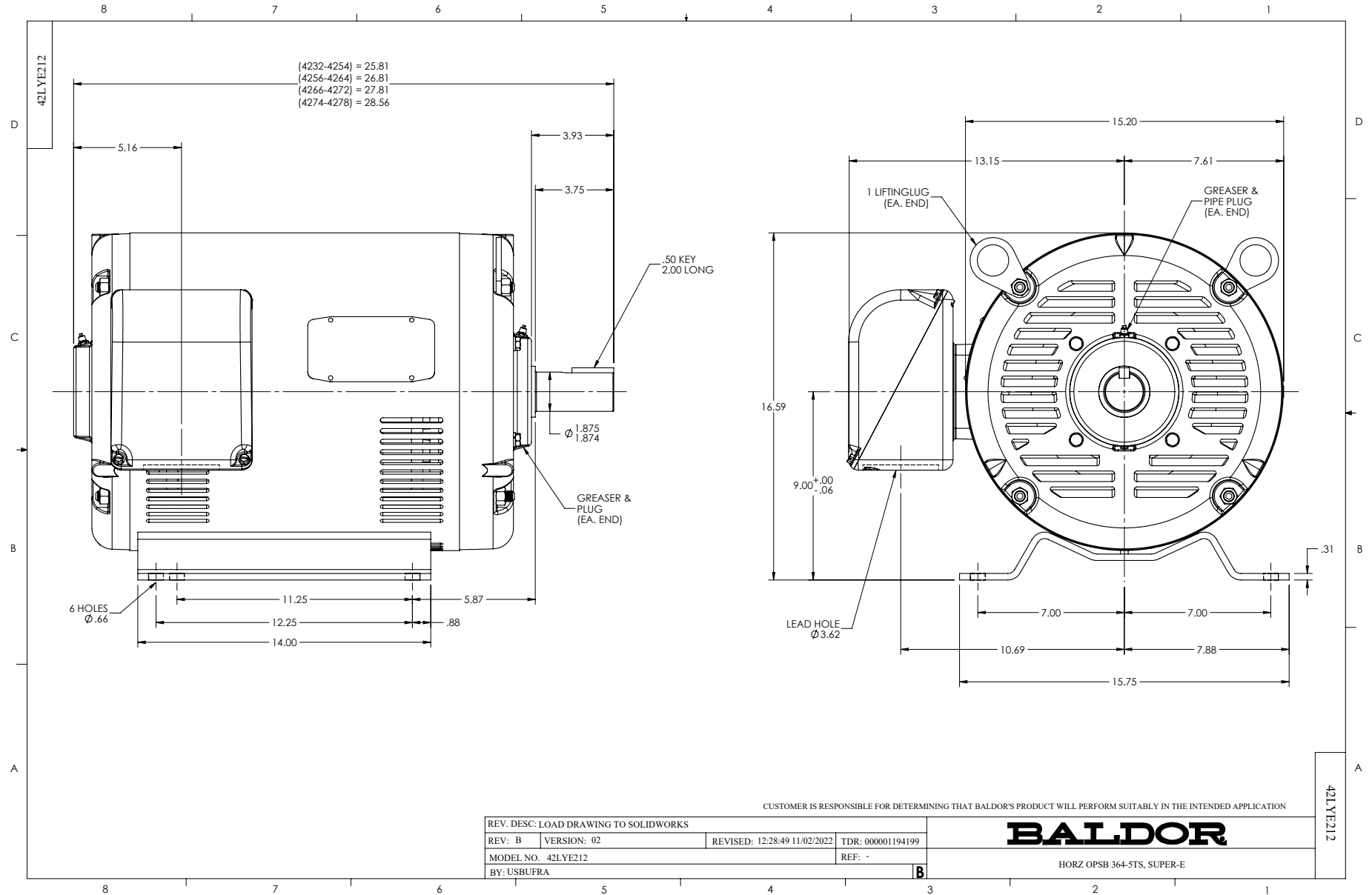
100 HP 3 PH 60 HZ 3540 RPM 460 V 4266M

Typical performance - not guaranteed values.

TORQUES (LB-FT): PO=483 PU=172 LR=245 LRA=771



7/8/2026 ACPERF, record # 38382



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.

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: ENBRIRO
MTL: -	© □	

**BALDOR - RELIANCE®**

3PH, DV, 9 LEADS, DELTA CONNECTION

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