ABB BALDOR RELIANCE

Customer information packet

EM2547T-12

60HP, 1775RPM, 3PH, 60HZ, 364T, 4278M, OPSB, F1

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Specifications

Enclosure	OPSB
Frame	364T
Frame Material	Steel
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	60.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 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	144.000 A @ 208.0 V
	68.000 A @ 460.0 V
	136.000 A @ 230.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.0 %
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	68.0 a

Part Detail

Revision	Y
Type	AC
Mech. spec.	42E211
Base	
Status	PRD/A
Elec. spec.	42WGW658
Layout	42LYE211
Eff. date	11-29-2023
CD Diagram	CD0104
Poles	04
Leads	12#8
Proprietary	False
Created date	07-29-2009

Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	NONE
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	12 @ 8 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	4278M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	30.69 IN
Power Factor	87
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	2.375 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1775 rpm
Speed Code	Single Speed
Starting Method	Wye Start - Delta Run
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.	EM2547T-12		**P/N**				**ENCLOSURE**	OPSB				
SPEC.	42E211W658	**CC**	010A	**FRAME**	364T		**S/N**					
HP	60		**CLASS**	F	**HZ**	60						
RPM	1775		**PH**	3	**DES**	A						
VOLT	230/460			**KVA-CODE**	G		**ODE BRG**	6311	**DE BRG**	6313		
AMP	136/68											
RATING	40C AMB-CONT			**GREASE**	POLYREX EM							
NEMA-NOM-EFF	95	**PF**	87	**SER.F.**	1.15							
	50Hz 60Hp 190/380V 162/81A					SF 1.0						
HTR-VOLTS		**HTR-AMPS**										

AC Induction Motor Performance Data
Record # 25763
Typical performance - not guaranteed values

Winding: 42WGW658-R001	**Type:** 4278M	**Enclosure:** OPSB

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			60	**Full Load Torque**	177 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			136/68	**Breakdown Torque**	624 LB-FT
R.P.M.			1775	**Pull-up Torque**	245 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	314 LB-FT
NEMA Design Code	A	**KVA Code**	G	**Starting Current**	470 A
Service Factor (S.F.)			1.15	**No-load Current**	22.2 A
NEMA Nom. Eff.	95	**Power Factor**	87	**Line-line Res. @ 25ºC**	0.0815 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	30°C
S.F. Amps				**Temp. Rise @ S.F. Load**	36°C
				Locked-rotor Power Factor	26
				Rotor inertia	10.4 LB-FT2

Load Characteristics 460 V, 60 Hz, 60 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	56	77	85	87	88	88	88
Efficiency	92.7	94.9	95.5	95	94.5	93.9	94.7
Speed	1793	1787	1781	1775	1769	1762	1771
Line amperes	27.3	38.7	52.1	67.6	83.6	101	77.2

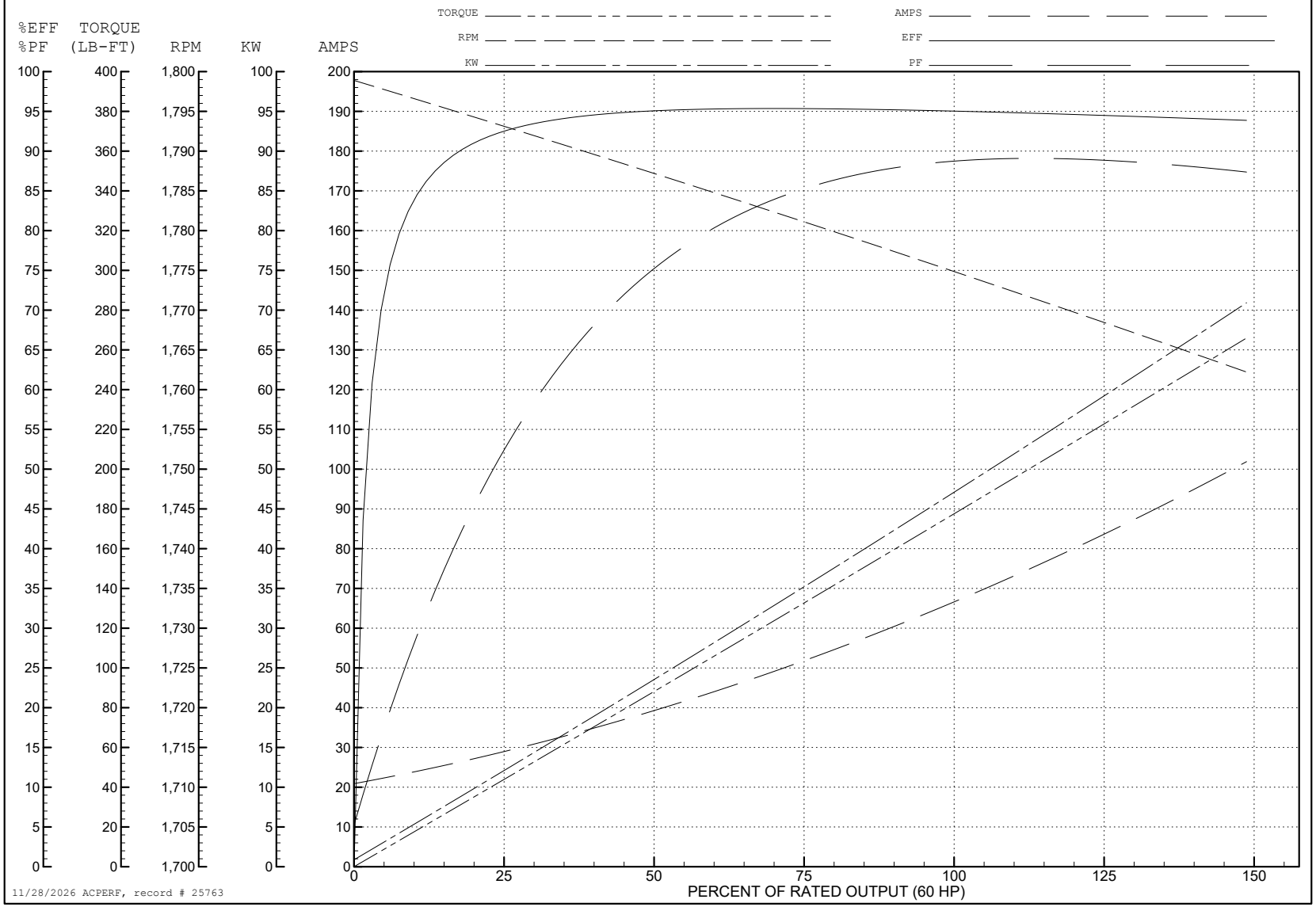
ABB Motors and Mechanical Inc.

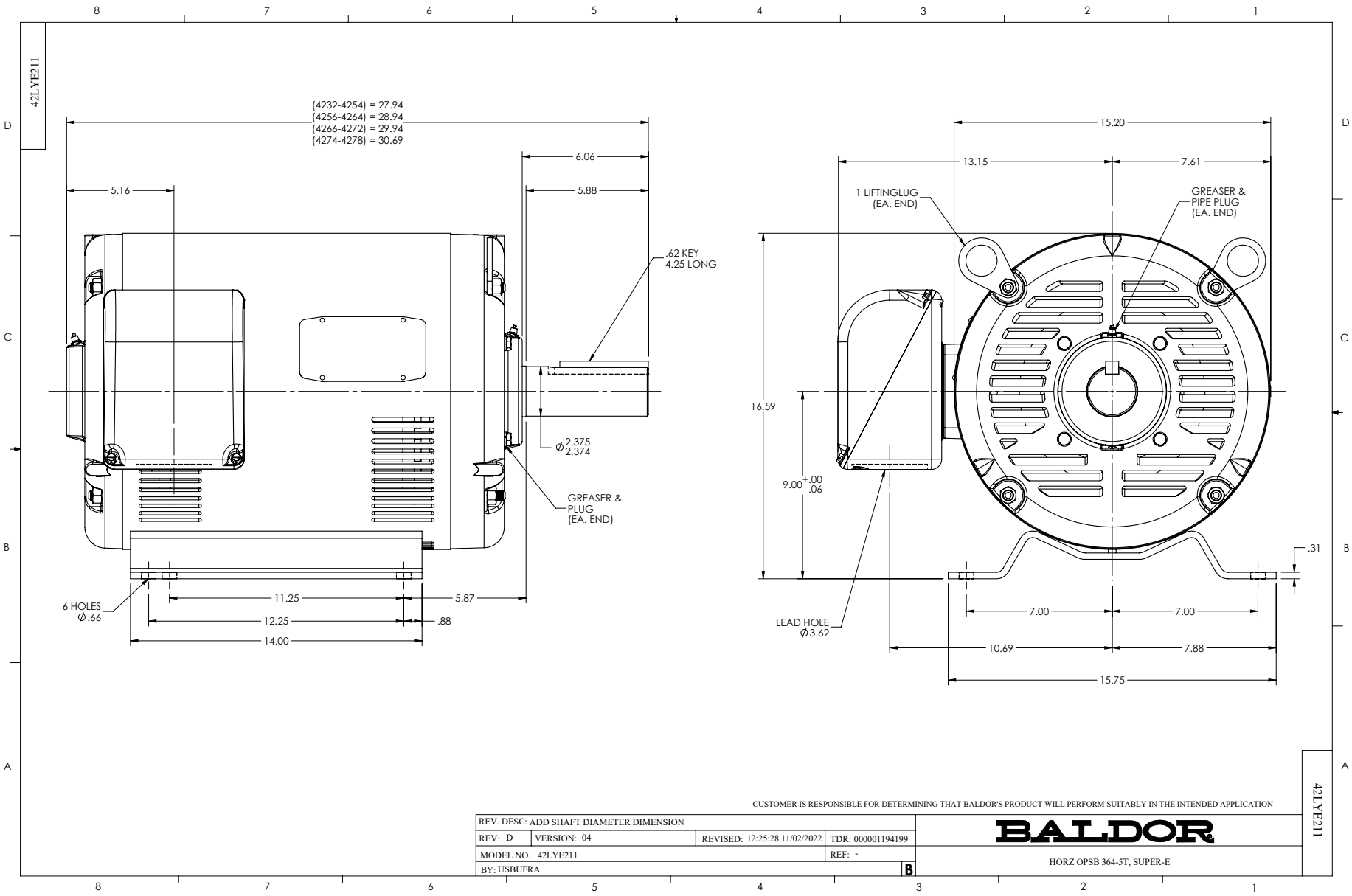
WINDING # 42WGW658

60 HP 3 PH 60 HZ 1775 RPM 460 V 4278M

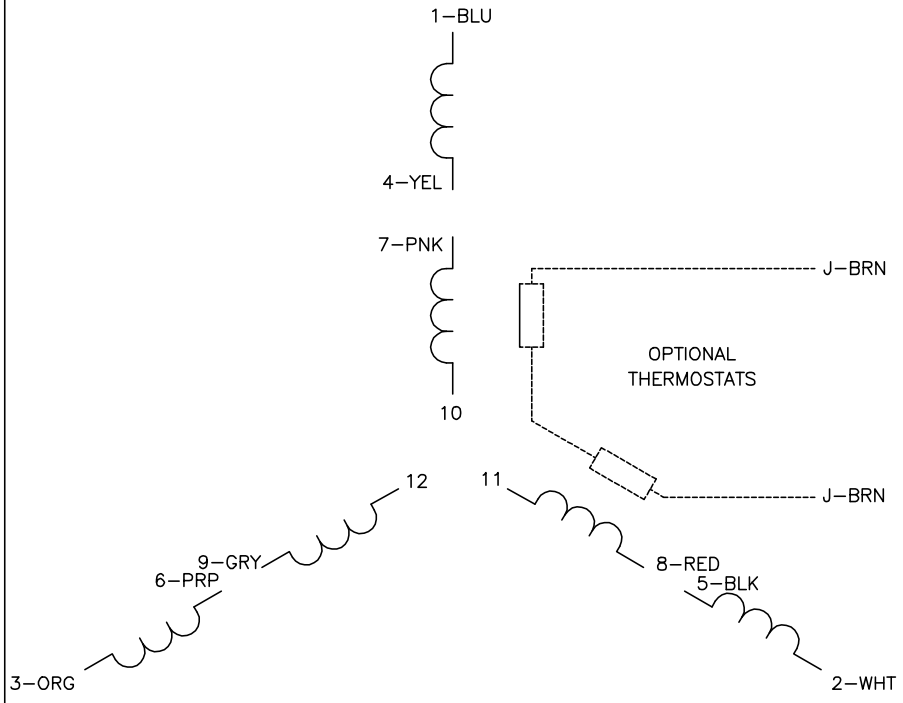
Typical performance - not guaranteed values.

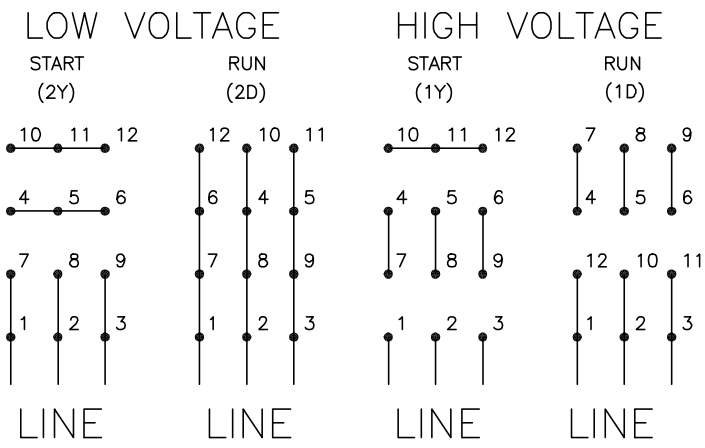
TORQUES(LB-FT): PO=624 PU=245 LR=314 LRA=470




42LYE211
(4232-4254) = 27.94
(4256-4264) = 28.94
(4266-4272) = 29.94
(4274-4278) = 30.69
6.06
5.16
5.88
.62 KEY
4.25 LONG
Ø2.375
2.374
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
Ø3.62
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: ADD SHAFT DIAMETER DIMENSION
REV: D
VERSION: 04
REVISED: 12:25:28 11/02/2022
TDR: 000001194199
MODEL NO. 42LYE211
REF: -
BY: USBUFRA
B
BALDOR
HORZ OPSB 364-5T, SUPER-E
42LYE211

CD0104





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.

CD0104

REV. DESC: ADD CLASS CONN00000007		
REV. LTR: D	VERSION: 01	TDR: 000001099922
FILE: \AAA\00008\377	REVISED: 09:02:55 02/19/2019	BY: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

3PH, DV, 12 LEADS, Y START/D RUN

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