ABB BALDOR RELIANCE

Customer information packet

EM2547T-5

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	575.0 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	56.000 A @ 575.0 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	56.0 a
Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	NONE

Part Detail

Revision	W
Type	AC
Mech. spec.	42E211
Base	
Status	PRD/A
Elec. spec.	42WGW589
Layout	42LYE211
Eff. date	02-12-2024
CD Diagram	CD0006
Poles	04
Leads	3#8
Proprietary	False
Created date	07-27-2009

KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 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	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

NP2138L												
CAT.NO.	EM2547T-5		**P/N**			**ENCLOSURE**	OPSB					
SPEC.	42E211W589	**CC**	010A	**FRAME**	364T	**S/N**						
HP	60		**CLASS**	F	**HZ**	60						
RPM	1775		**PH**	3	**DES**	A						
VOLT	575				**KVA-CODE**	G	**ODE BRG**	6311	**DE BRG**	6313		
AMP	56											
RATING	40C AMB-CONT			**GREASE**	POLYREX EM							
NEMA-NOM-EFF	95	**PF**	87	**SER.F.**	1.15							
HTR-VOLTS		**HTR-AMPS**										

Accessories

Part number	Description	Multiplier
42-1400	C FACE KIT	A8

AC Induction Motor Performance Data
Record # 13774
Typical performance - not guaranteed values

Winding: 42WGW589-R001	**Type:** 4278M	**Enclosure:** OPSB

Nameplate Data				**575 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			60	**Full Load Torque**	177 LB-FT
Volts			575	**Start Configuration**	direct on line
Full Load Amps			56	**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**	376 A
Service Factor (S.F.)			1.15	**No-load Current**	17.8 A
NEMA Nom. Eff.	95	**Power Factor**	87	**Line-line Res. @ 25ºC**	0.131 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	30°C
S.F. Amps				**Temp. Rise @ S.F. Load**	40°C
				Locked-rotor Power Factor	26.2
				Rotor inertia	10.4 LB-FT2

Load Characteristics 575 V, 60 Hz, 60 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	56	77	85	87	89	89	88
Efficiency	92.6	94.9	95.3	95	94.6	93.7	94.8
Speed	1793	1787	1781	1775	1769	1762	1771
Line amperes	21.8	31	41.7	54.1	66.9	81	61.8

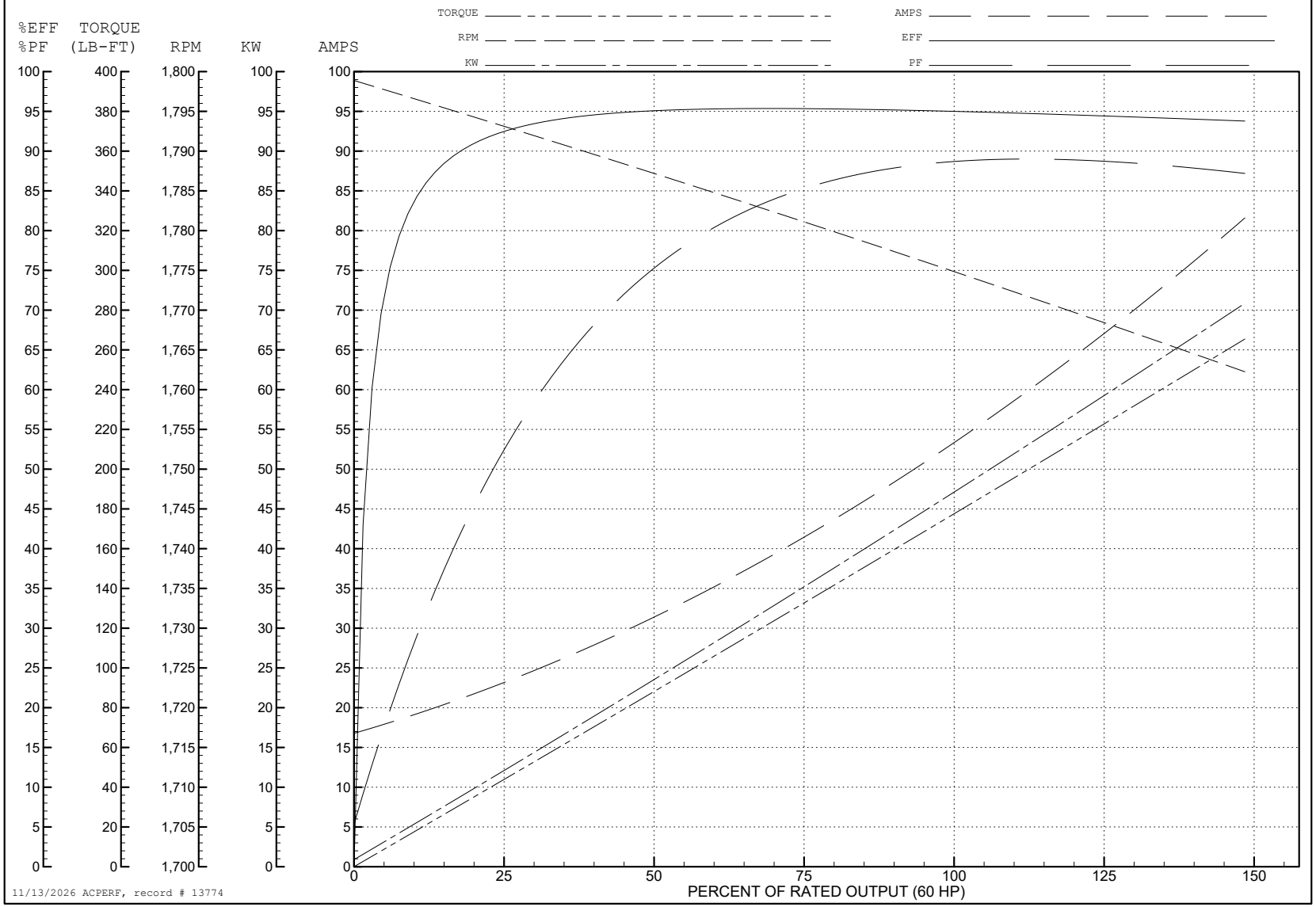
ABB Motors and Mechanical Inc.

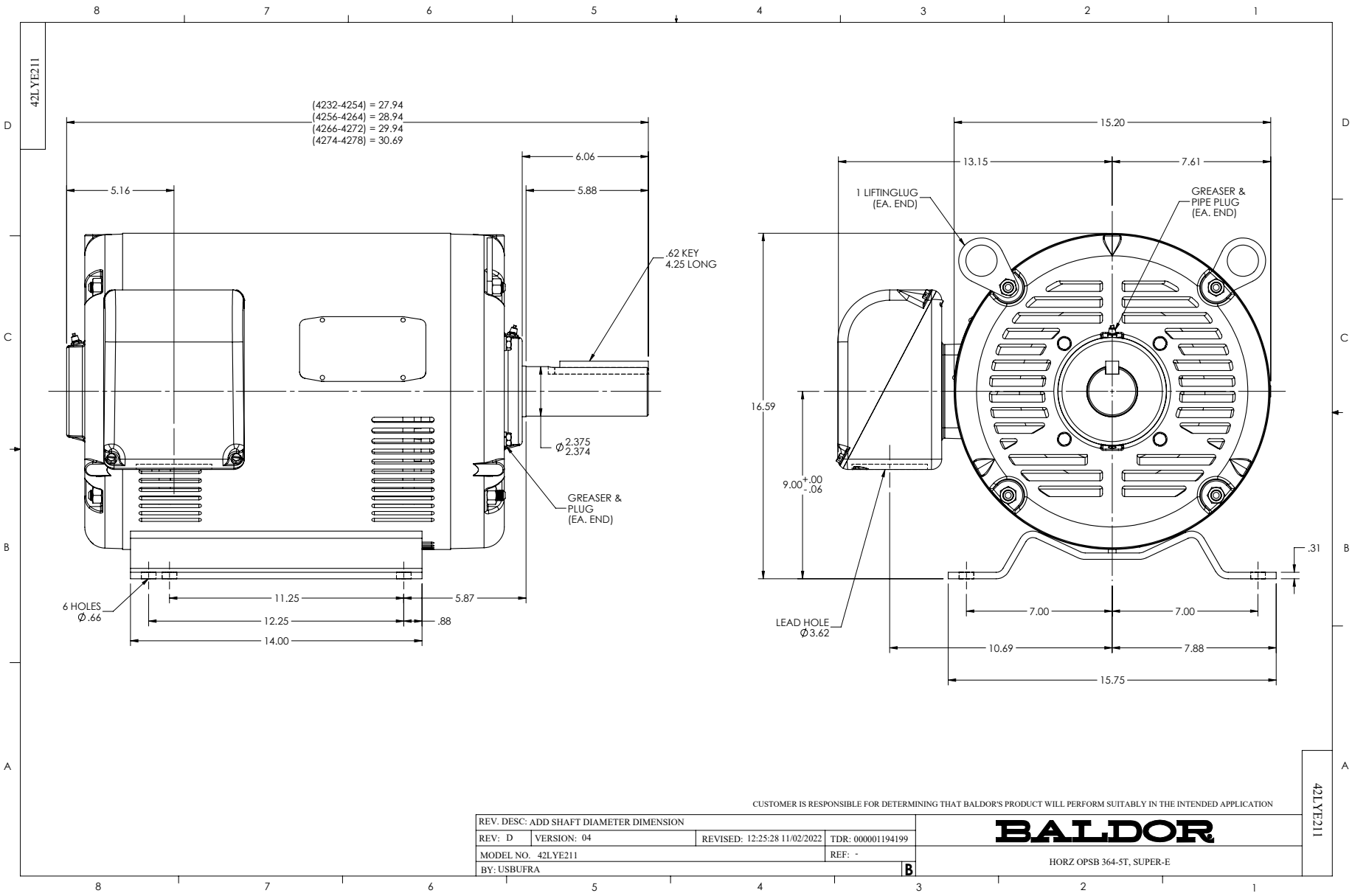
WINDING # 42WGW589

60 HP 3 PH 60 HZ 1775 RPM 575 V 4278M

TORQUES(LB-FT): PO=624 PU=245 LR=314 LRA=376

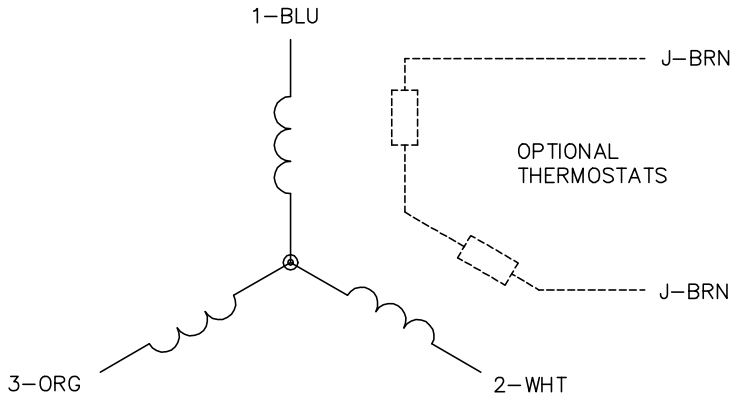
Typical performance - not guaranteed values.

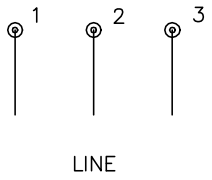



42LYE211
(4232-4254) = 27.94
(4256-4264) = 28.94
(4266-4272) = 29.94
(4274-4278) = 30.69
6.06
5.16
5.88
.62 KEY
4.25 LONG
Ø2.375
2.374
GREASER &
PLUG
(EA. END)
6 HOLES
Ø.66
11.25
5.87
12.25
.88
14.00
15.20
13.15
7.61
1 LIFTINGLUG
(EA. END)
GREASER &
PIPE PLUG
(EA. END)
16.59
9.00 +.00 -.06
.31
LEAD HOLE
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

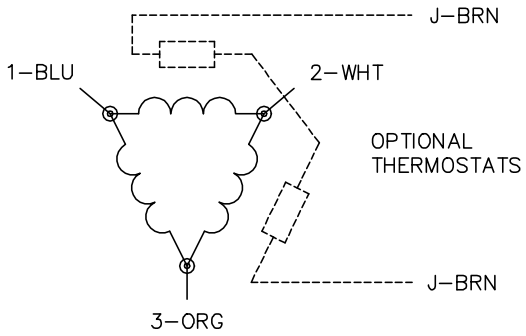
CD0006

TYPICAL WYE–CONNECTED MOTOR





TYPICAL DELTA–CONNECTED MOTOR



NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

REV. DESC: ADD CLASS CONN00000007		
REV. LTR: E	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\141	REVISED: 10:24:49 02/19/2019	BY: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

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