ABB BALDOR RELIANCE

Customer information packet

EJPM2543T

50HP, 1775RPM, 3PH, 60HZ, 326JP, 4256M, OPSB, F

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Specifications

Enclosure	OPSB
Frame	326JP
Frame Material	Steel
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	50.000 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	CSA
	CSA EEV
	NEMA PREMIUM
	UR
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	114.000 A @ 230.0 V
	121.000 A @ 208.0 V
	57.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	57.0 a
Insulation Class	F

Part Detail

Revision	D
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	42WGW387
Layout	42LY-000-047
Eff. date	09-04-2026
CD Diagram	CD0180
Poles	04
Leads	9#8
Proprietary	False
Created date	02-02-2021

Inverter Code	Inverter Ready
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	4256M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	30.81 IN
Power Factor	87
Product Family	General Purpose
Pulley Face Code	C-Face
Rodent Screen	Included
Service Factor	1.15
Shaft Diameter	1.250 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	1775 rpm
Speed Code	Single Speed
Starting Method	Full Voltage
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.	EJPM2543T			**P/N**				**ENCLOSURE**	OPSB			
SPEC.	42-0000-0109	**CC**	010A		**FRAME**	326JP		**S/N**				
HP	50			**CLASS**	F		**HZ**	60				
RPM	1775			**PH**	3		**DES**	A				
VOLT	230/460				**KVA-CODE**	G		**ODE BRG**	6311	**DE BRG**	6312	
AMP	114/57											
RATING	40C AMB-CONT				**GREASE**	POLYREX EM						
NEMA-NOM-EFF	94.5	**PF**	87	**SER.F.**	1.15							
	50HZ 50HP 190/380V 136/68A							SF1.0				
HTR-VOLTS		**HTR-AMPS**										

AC Induction Motor Performance Data
Record # 53755
Typical performance - not guaranteed values

Winding: 42WGW387-R001	**Type:** 4256M	**Enclosure:** OPSB

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			50	**Full Load Torque**	149 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			114/57	**Breakdown Torque**	420 LB-FT
R.P.M.			1775	**Pull-up Torque**	217 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	311 LB-FT
NEMA Design Code	A	**KVA Code**	G	**Starting Current**	373 A
Service Factor (S.F.)			1.15	**No-load Current**	20.2 A
NEMA Nom. Eff.	94.5	**Power Factor**	87	**Line-line Res. @ 25ºC**	0.12266 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	39°C
S.F. Amps				**Temp. Rise @ S.F. Load**	47°C
				Locked-rotor Power Factor	27
				Rotor inertia	7.46 lb-ft²

Load Characteristics 460 V, 60 Hz, 50 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	54	75	83	87	88	88	88
Efficiency	92	94.5	94.9	94.7	94.2	93.4	94.4
Speed	1791	1786.1	1781.1	1775.2	1769.2	1762.1	1772
Line amperes	24.4	33.4	44.7	57.4	71	85.6	65.6

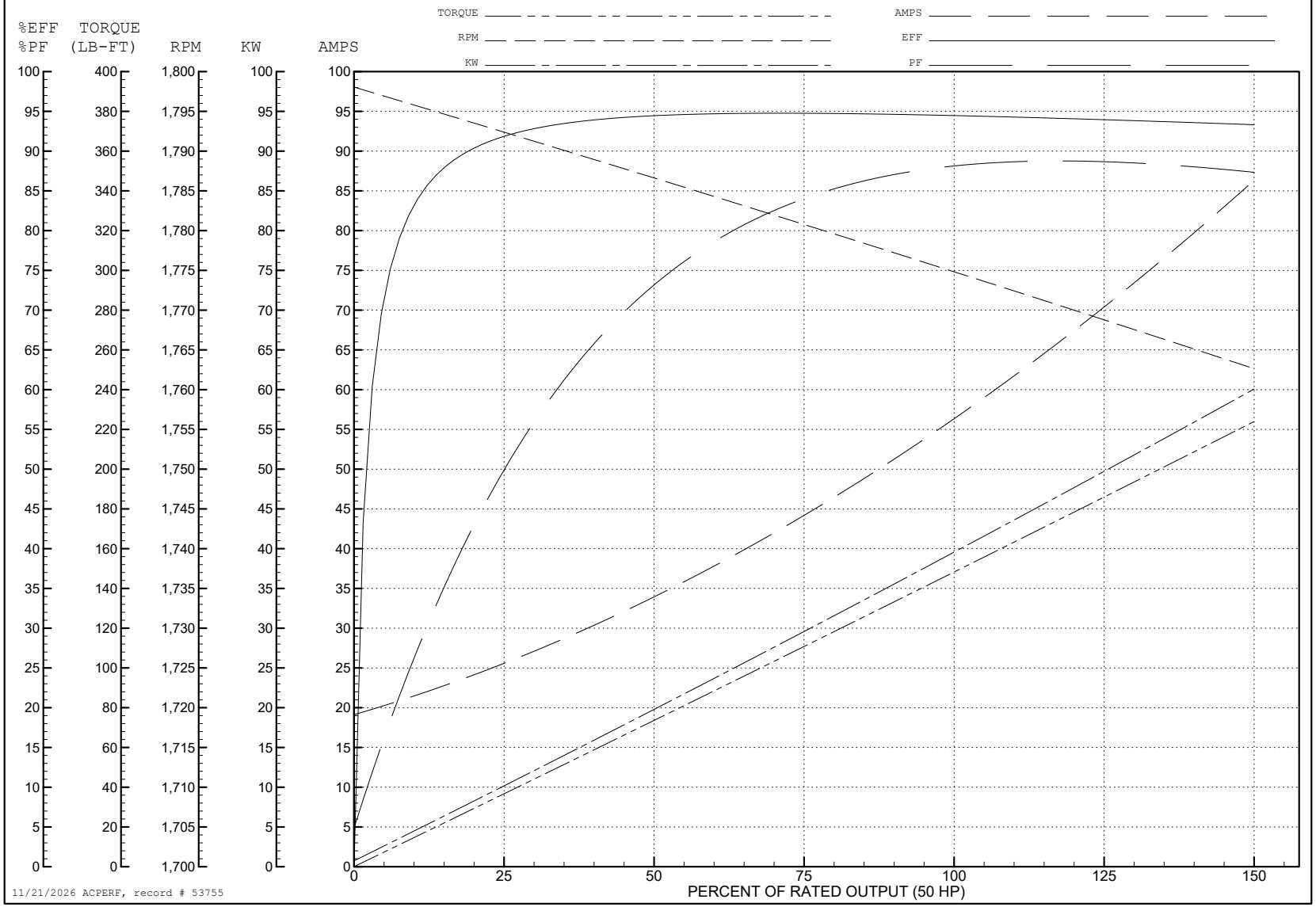
ABB Motors and Mechanical Inc.

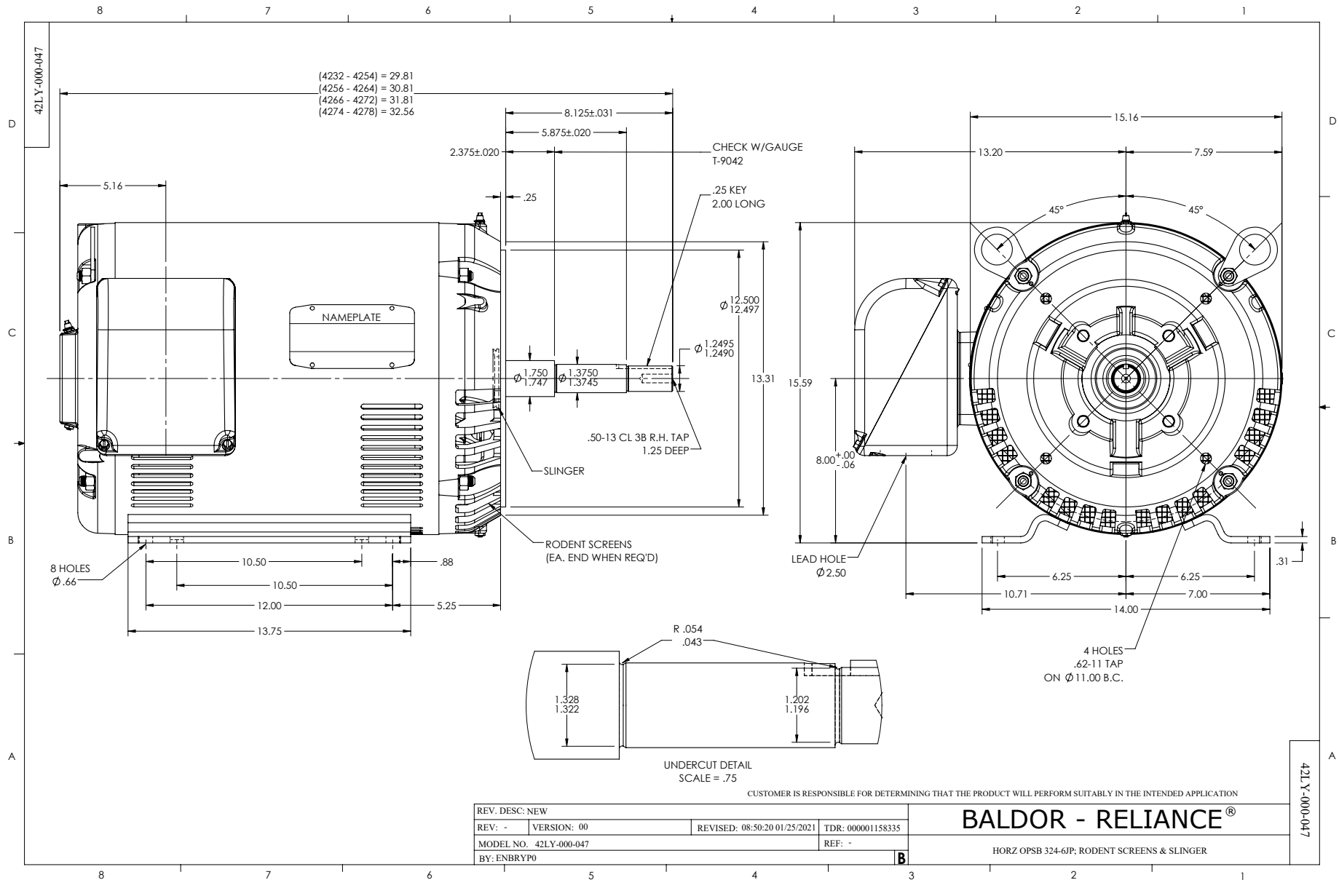
WINDING # 42WGW387

50 HP 3 PH 60 HZ 1775 RPM 460 V 4256M

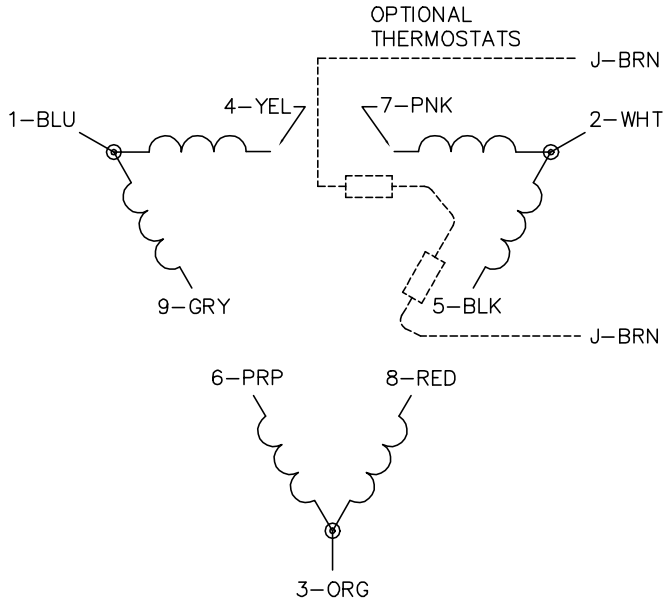
Typical performance - not guaranteed values.

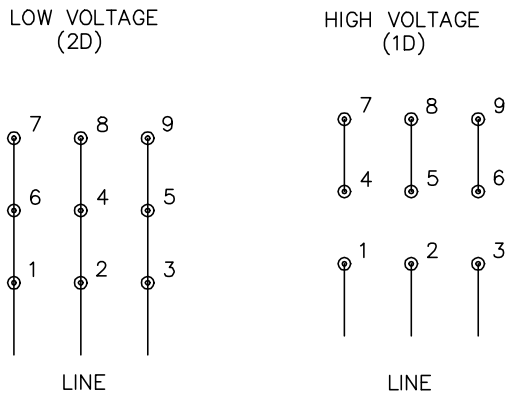
TORQUES(LB-FT): PO=420 PU=217 LR=311 LRA=373




42LY-000-047
(4232 - 4254) = 29.81
(4256 - 4264) = 30.81
(4266 - 4272) = 31.81
(4274 - 4278) = 32.56
8.125±.031
5.875±.020
2.375±.020
CHECK W/GAUGE
T-9042
.25 KEY
2.00 LONG
.25
5.16
NAMEPLATE
Ø 12.500
12.497
Ø 1.2495
1.2490
Ø 1.750
1.747
Ø 1.3750
1.3745
13.31
.50-13 CL 3B R.H. TAP
1.25 DEEP
SLINGER
RODENT SCREENS
(EA. END WHEN REQ'D)
8 HOLES
Ø .66
10.50
10.50
12.00
13.75
.88
5.25
15.16
13.20
7.59
45°
45°
15.59
8.00 +.00 -.06
LEAD HOLE
Ø 2.50
6.25
6.25
10.71
7.00
14.00
.31
4 HOLES
.62-11 TAP
ON Ø 11.00 B.C.
R .054
.043
1.328
1.322
1.202
1.196
UNDERCUT DETAIL
SCALE = .75
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: NEW
REV: - VERSION: 00 REVISED: 08:50:20 01/25/2021 TDR: 000001158335
MODEL NO. 42LY-000-047 REF: -
BY: ENBRYP0 B
BALDOR - RELIANCE®
HORZ OPSB 324-6JP; RODENT SCREENS & SLINGER
42LY-000-047

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

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