



Customer information packet

EJMM2543T

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

Specifications

Enclosure	OPSB
Frame	326JM
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 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	121.000 A @ 208.0 V 57.000 A @ 460.0 V 114.000 A @ 230.0 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
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	57.0 a

Part detail

Revision	AD
Type	AC
Mech. spec.	42F59
Base	
Status	PRD/A
Elec. spec.	42WGW387
Layout	42LYF059
Eff. date	06-27-2024
CD Diagram	CD0180
Poles	04
Leads	9#8
Proprietary	False
Created date	01-01-0001

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 @ 8 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	4256M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	27.94 IN
Power Factor	87
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	Included
Service Factor	1.15
Shaft Diameter	1.375 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft 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

NP3554LUA											
CAT.NO.	EJMM2543T			P/N						ENCL	OPSE
SPEC.	42F059W387G4		CC	010A		FRAME		326JM		SER.NO.	
HP	50			CLASS		F		HZ		60	
RPM	1775			PH		3		DES		A	
VOLTS	230/460				CODE		G		ODE BRG	6311	DE BRG 6312
AMPS	114/57										
RATING	40C AMB-CONT			NEMA-NOM-EFF				94.5		GREASE	POLYREX EM
PF	87		SER.F.	1.15		CT30-60(2:1) VT3-60(20:1)					
USABLE AT	50HZ 50HP 190/380V 136/68A					SF1.0					
HTR-VOLTS	HTR-AMPS		MAX. SPACE HEATER TEMP.								

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
NEMA Design Code		A		KVA Code		G
Service Factor (S.F.)		1.15		Starting Current		373 A
NEMA Nom. Eff.		94.5		Power Factor		87
Rating - Duty		40C		AMB-CONT		
S.F. Amps				Temp. Rise @ Rated Load		39°C
				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

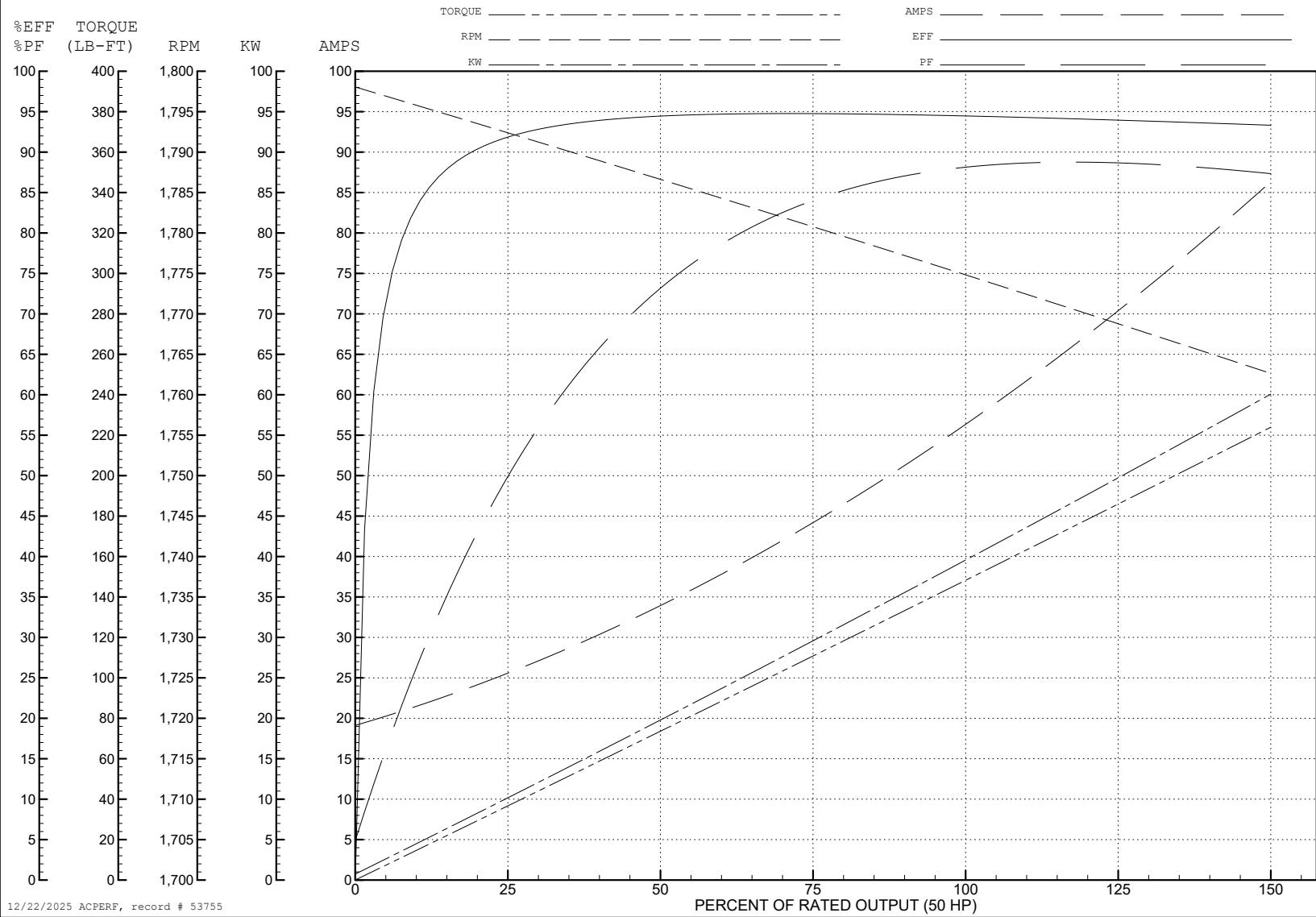
ABB Motors and Mechanical Inc.

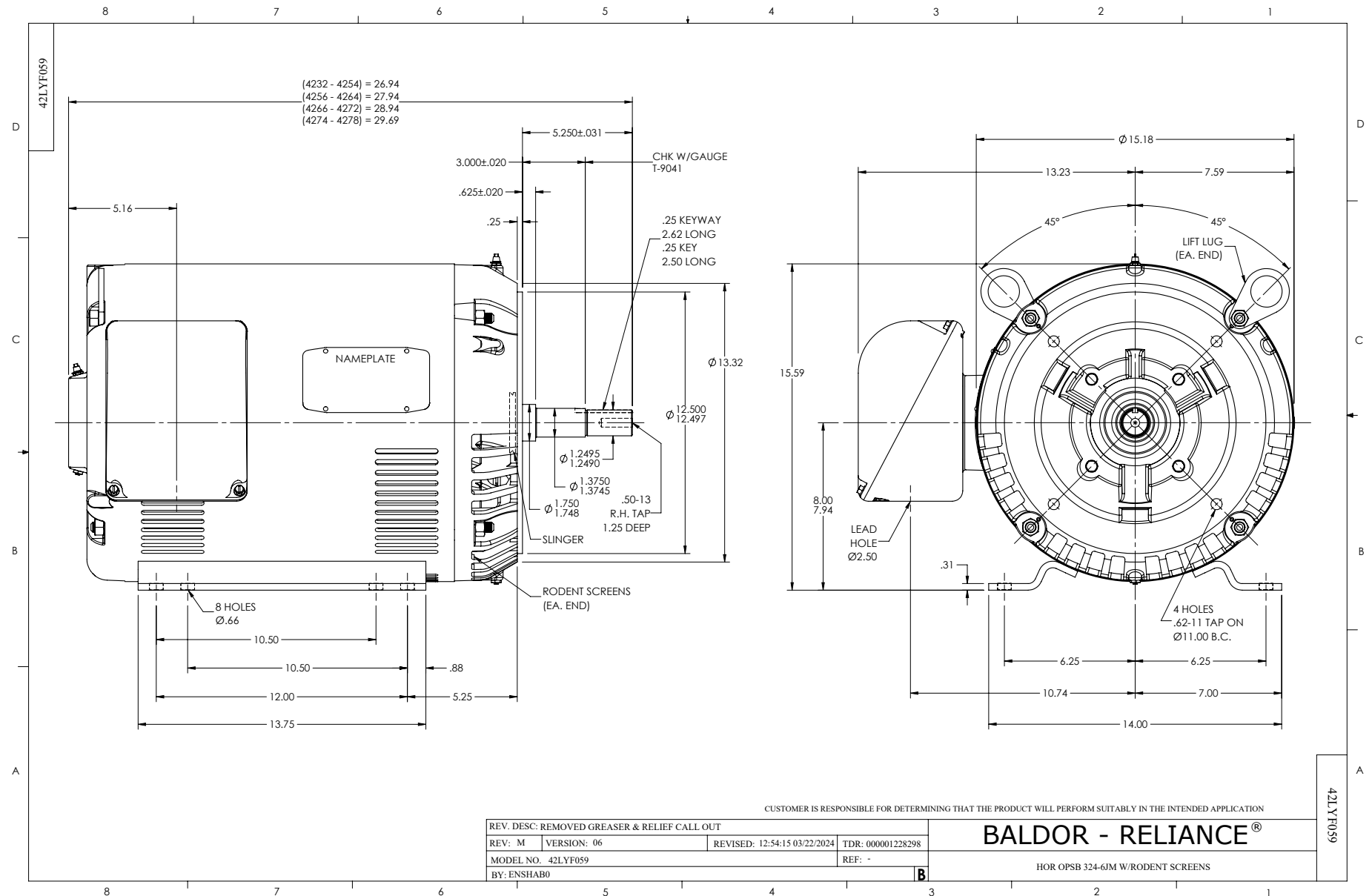
WINDING # 42WGW387

Typical performance - not guaranteed values.

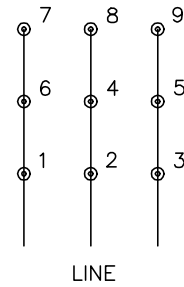
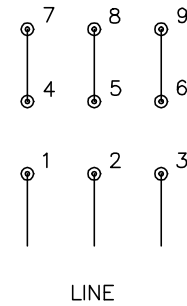
50 HP 3 PH 60 HZ 1775 RPM 460 V 4256M

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





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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