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# Customer information packet

## EHM2543T-8

50HP, 1775RPM, 3PH, 60HZ, 326T, 4256M, OPSB, F1

## Specifications

Enclosure	OPSB
Frame	326T
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	200.0 V @ 60 HZ
Agency Approvals	CSA UR
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	132.000 A @ 200.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.5 %
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	132.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing

## Part detail

Revision	V
Type	AC
Mech. spec.	42H068
Base	
Status	PRD/A
Elec. spec.	42WGW707
Layout	42LYH068
Eff. date	07-10-2024
CD Diagram	CD0006
Poles	04
Leads	3#2
Proprietary	False
Created date	10-07-2010

<b>Motor Lead Exit</b>	Ko Box
<b>Motor Lead Quantity/Wire Size</b>	3 @ 2 AWG
<b>Motor Lead Termination</b>	Flying Leads
<b>Motor Standards</b>	NEMA
<b>Motor Type</b>	4256M
<b>Mounting Arrangement</b>	F1
<b>Number of Poles</b>	4
<b>Overall Length</b>	27.69 IN
<b>Power Factor</b>	87
<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>Service Factor</b>	1.15
<b>Shaft Diameter</b>	2.125 IN
<b>Shaft Extension Location</b>	Pulley End
<b>Shaft Ground Indicator</b>	Mounting Provisions Only
<b>Shaft Rotation</b>	Reversible
<b>Shaft Slinger Indicator</b>	No Slinger
<b>Speed</b>	1775 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>NP2094E06B03</b>									
<b>CAT.NO.</b>	EHM2543T-8								
<b>SPEC.</b>	42H068W707G1								
<b>HP</b>	50								
<b>VOLTS</b>	200								
<b>AMPS</b>	132								
<b>RPM</b>	1775								
<b>FRAME</b>	326T		<b>HZ</b>	60		<b>PH</b>	3		
<b>SER.F.</b>	1.15	<b>CODE</b>	G	<b>DES</b>	B	<b>CL</b>	F		
<b>NEMA-NOM-EFF</b>	94.5	<b>PF</b>	87						
<b>RATING</b>	40C AMB-CONT								
<b>CC</b>	010A		<b>USABLE AT 208V</b>				N/A		
<b>DE</b>	6312	<b>ODE</b>	6311						
<b>AUTO</b>		<b>MANUAL</b>		<b>NONE</b>					
<b>ENCL</b>	OPSB	<b>SN</b>							
<b>BLANK</b>									

**AC Induction Motor Performance Data**

Record # 35578

Typical performance - not guaranteed values

Winding: 42WGW707-R001		Type: 4256M	Enclosure: OPSB
<b>Nameplate Data</b>		<b>200 V, 60 Hz: Single Voltage Motor</b>	
Rated Output (HP)	50	Full Load Torque	148 LB-FT
Volts	200	Start Configuration	direct on line
Full Load Amps	132	Breakdown Torque	425 LB-FT
R.P.M.	1775	Pull-up Torque	225 LB-FT
Hz	60 Phase	Locked-rotor Torque	284 LB-FT
NEMA Design Code	B KVA Code	Starting Current	881 A
Service Factor (S.F.)	1.15	No-load Current	48 A
NEMA Nom. Eff.	94.5 Power Factor	Line-line Res. @ 25°C	0.0234 Ω
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	36°C
S.F. Amps		Temp. Rise @ S.F. Load	43°C
		Locked-rotor Power Factor	27
		Rotor inertia	7.46 LB-FT <sup>2</sup>

**Load Characteristics 200 V, 60 Hz, 50 HP**

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	47	69	79	87	86	86	86
Efficiency	89.8	93.4	94.2	94.5	94.2	93.8	94.3
Speed	1795	1790	1785	1780	1774	1768	1776
Line amperes	65	84	109	132	167	200	153

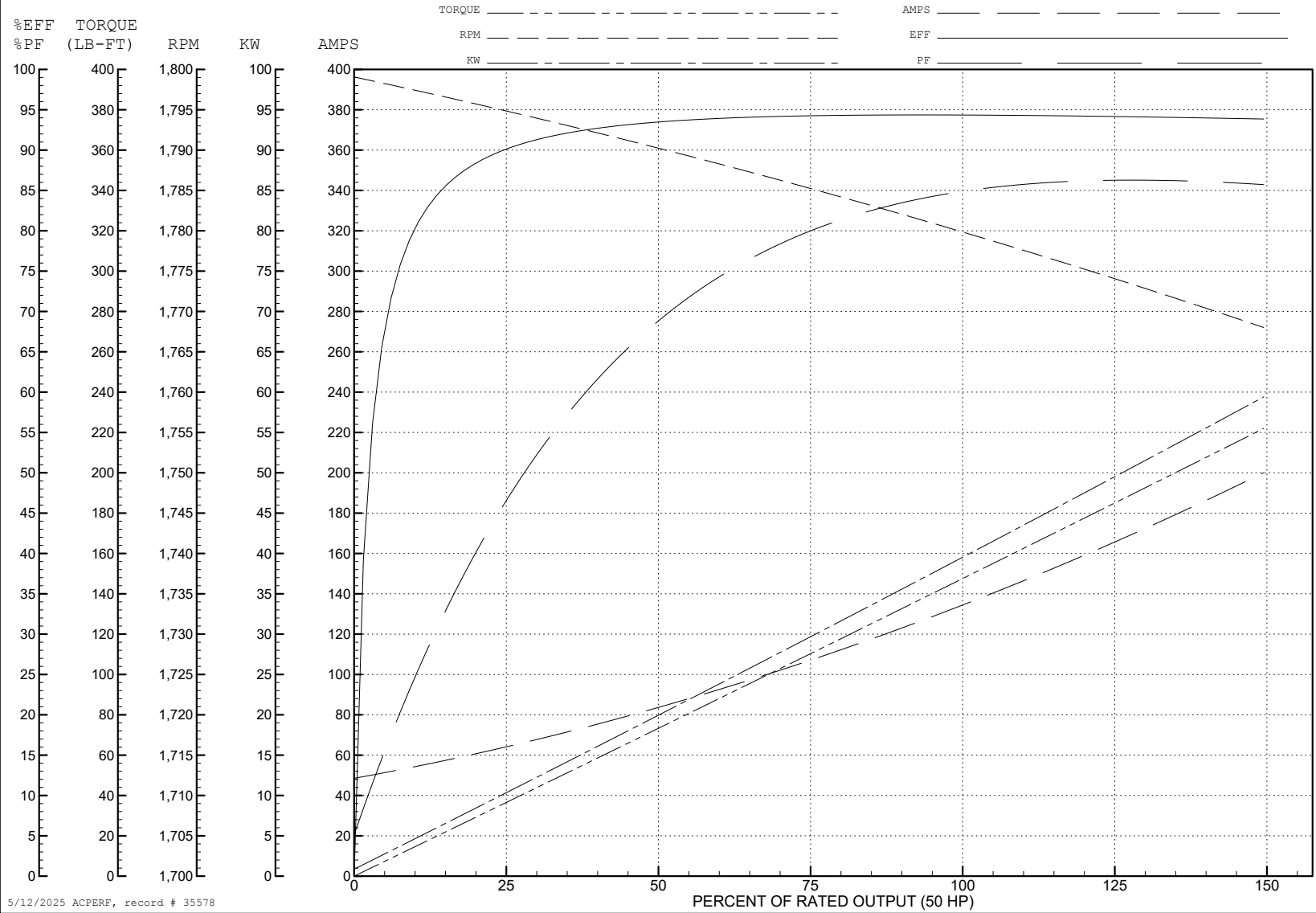
ABB Motors and Mechanical Inc.

WINDING # 42WGW707

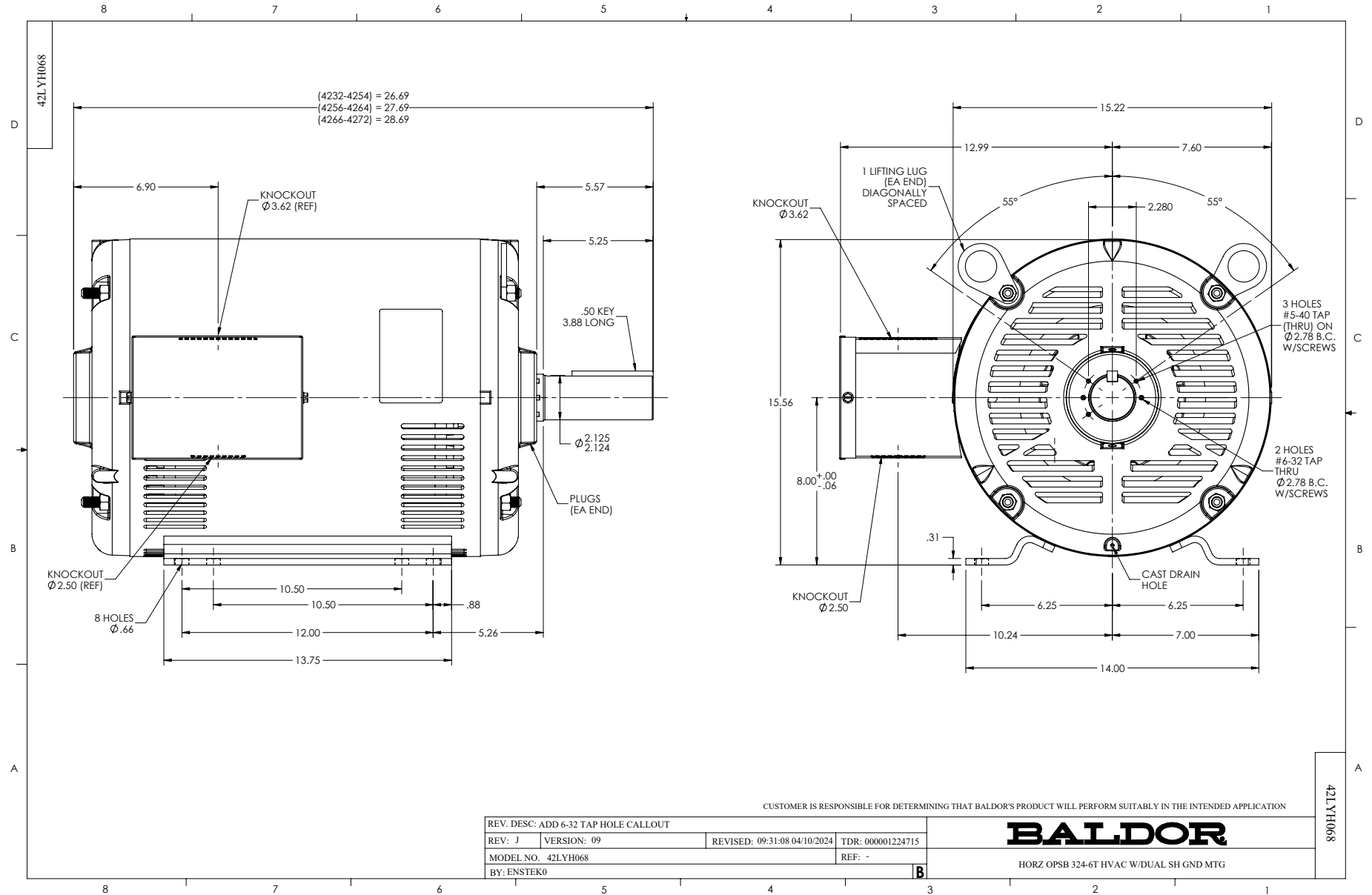
Typical performance - not guaranteed values.

50 HP 3 PH 60 HZ 1775 RPM 200 V 4256M

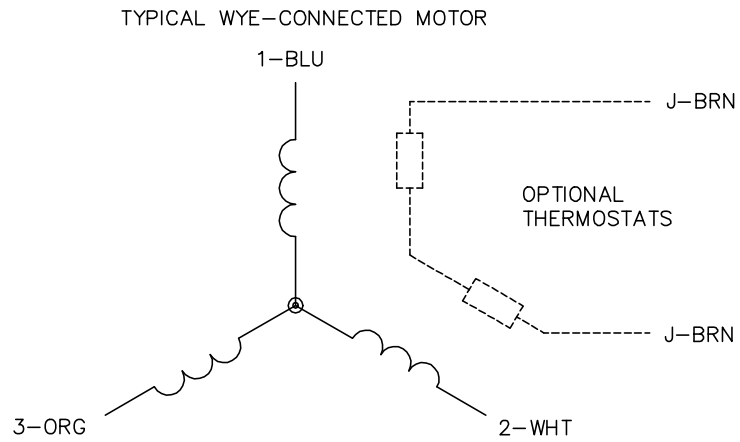
TORQUES (LB-FT): PO=425 PU=225 LR=284 LRA=881



5/12/2025 ACPERF, record # 35578



CD0006



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

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REV. LTR: E	VERSION: 01	TDR: 000001099922
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MTL: -		© □

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

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