ABB BALDOR RELIANCE

Customer information packet

EHM2547T

60HP, 1775RPM, 3PH, 60HZ, 364T, 4272M, 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	UR
	CSA
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	136.000 A @ 230.0 V
	144.000 A @ 208.0 V
	68.000 A @ 460.0 V
Design Code	B
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
Insulation Class	F

Part Detail

Revision	Y
Type	AC
Mech. spec.	42H067
Base	
Status	PRD/A
Elec. spec.	42WGW434
Layout	42LYH067
Eff. date	07-10-2024
CD Diagram	CD0005
Poles	04
Leads	9#8
Proprietary	False
Created date	06-16-2006

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	4272M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	29.94 IN
Power Factor	88
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	Mounting Provisions Only
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

NP2094E06B03									
CAT.NO.	EHM2547T								
SPEC.	42H067W434G1								
HP	60								
VOLTS	230/460								
AMPS	136/68								
RPM	1775								
FRAME	364T	**HZ**	60	**PH**	3				
SER.F.	1.15	**CODE**	G	**DES**	B	**CL**	F		
NEMA-NOM-EFF	95	**PF**	88						
RATING	40C AMB-CONT								
CC	010A	**USABLE AT 208V**		N/A					
DE	6313	**ODE**	6311						
AUTO		**MANUAL**		**NONE**					
ENCL	OPSB	**SN**							
BLANK									

AC Induction Motor Performance Data
Record # 35576
Typical performance - not guaranteed values

Winding: 42WGW434-R003	**Type:** 4272M	**Enclosure:** OPSB

Nameplate Data			
Rated Output (HP)			60
Volts			230/460
Full Load Amps			136/68
R.P.M.			1775
Hz	60	**Phase**	3
NEMA Design Code	B	**KVA Code**	G
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	95	**Power Factor**	88
Rating - Duty			40C AMB-CONT
S.F. Amps			

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	177 LB-FT
Start Configuration	direct on line
Breakdown Torque	614 LB-FT
Pull-up Torque	240 LB-FT
Locked-rotor Torque	309 LB-FT
Starting Current	464 A
No-load Current	22.2 A
Line-line Res. @ 25ºC	0.0887 Ω
Temp. Rise @ Rated Load	31°C
Temp. Rise @ S.F. Load	41°C
Locked-rotor Power Factor	27
Rotor inertia	9.59 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	88	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	27.3	38.7	52.1	67.5	83.6	101.3	77.1

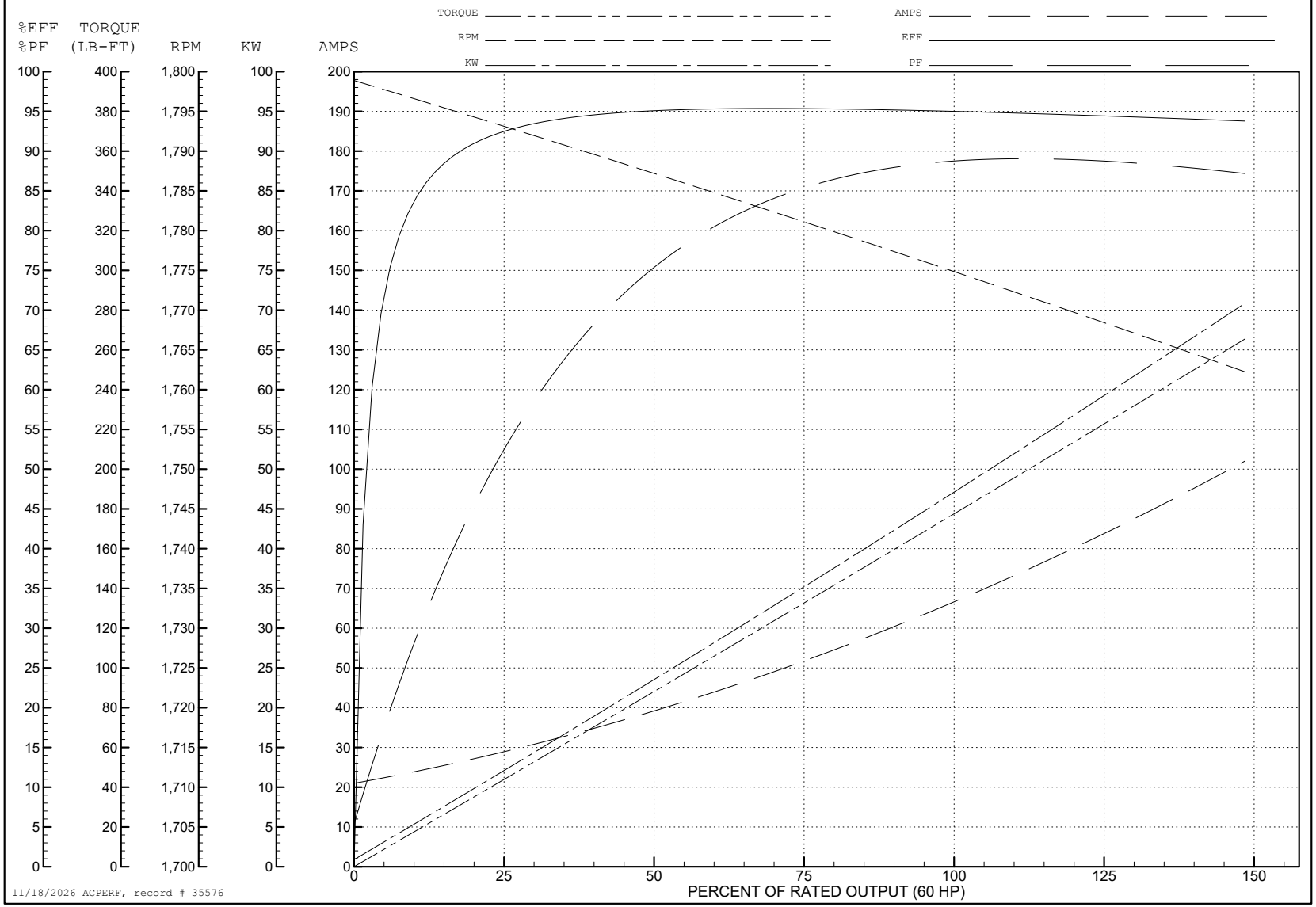
ABB Motors and Mechanical Inc.

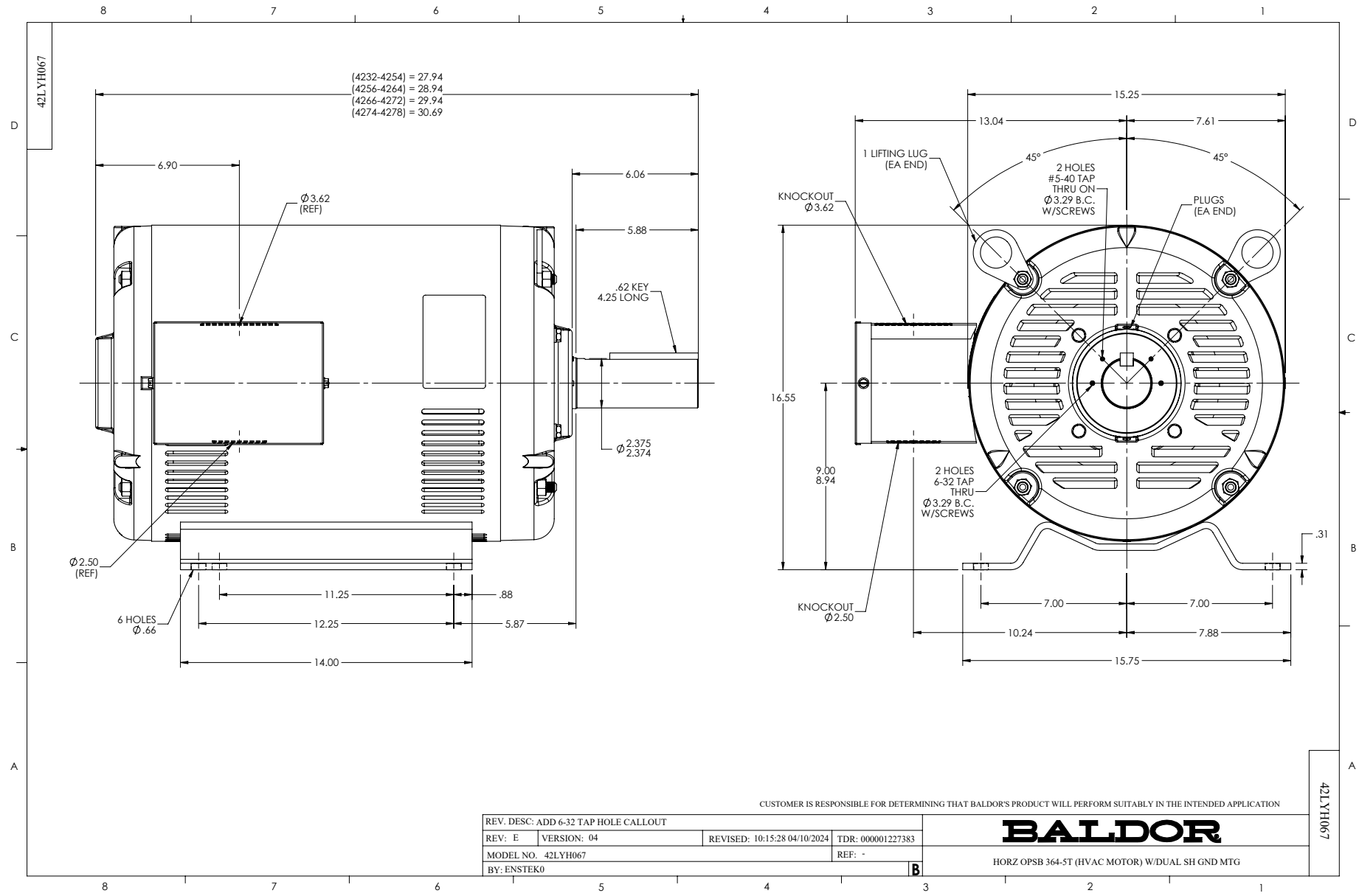
WINDING # 42WGW434

60 HP 3 PH 60 HZ 1775 RPM 460 V 4272M

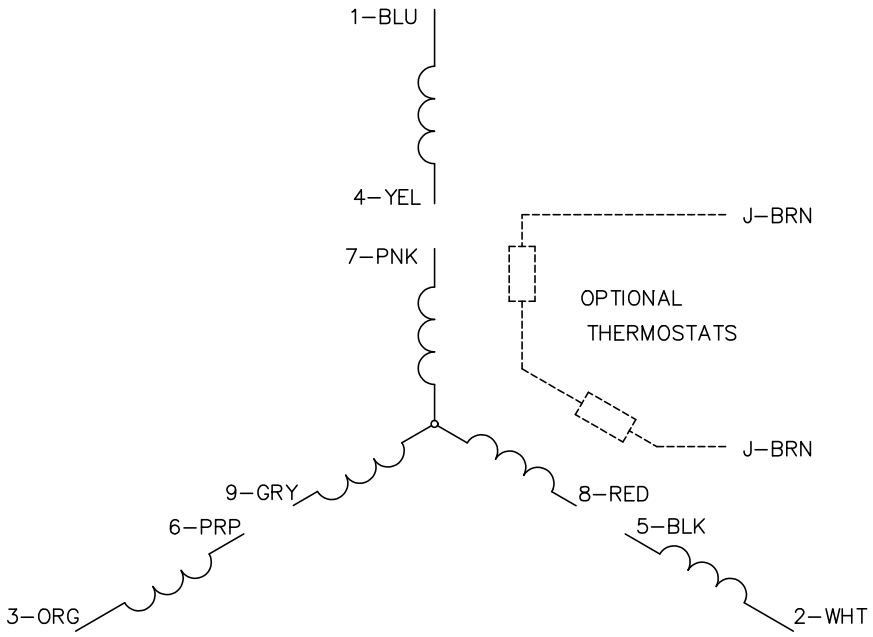
Typical performance - not guaranteed values.

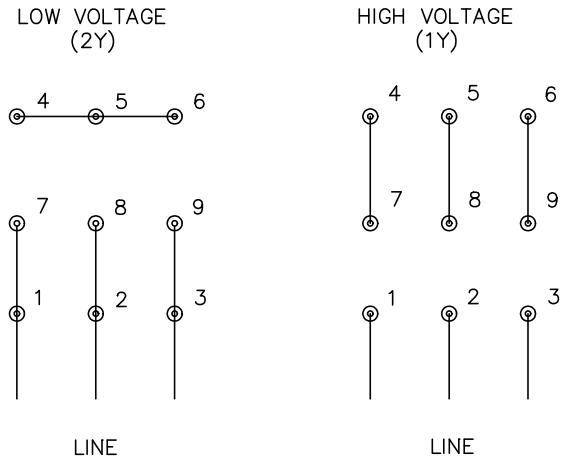
TORQUES(LB-FT): PO=614 PU=240 LR=309 LRA=464




42LYH067
(4232-4254) = 27.94
(4256-4264) = 28.94
(4266-4272) = 29.94
(4274-4278) = 30.69
6.90
Ø3.62 (REF)
6.06
5.88
.62 KEY 4.25 LONG
Ø2.375 2.374
Ø2.50 (REF)
6 HOLES Ø.66
11.25
.88
12.25
5.87
14.00
15.25
13.04
7.61
1 LIFTING LUG (EA END)
45°
45°
2 HOLES #5-40 TAP THRU ON Ø3.29 B.C. W/SCREWS
PLUGS (EA END)
KNOCKOUT Ø3.62
16.55
9.00 8.94
2 HOLES 6-32 TAP THRU Ø3.29 B.C. W/SCREWS
.31
KNOCKOUT Ø2.50
7.00
7.00
10.24
7.88
15.75
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: ADD 6-32 TAP HOLE CALLOUT
REV: E
VERSION: 04
REVISED: 10:15:28 04/10/2024
TDR: 000001227383
MODEL NO. 42LYH067
REF: -
BY: ENSTEK0
B
BALDOR
HORZ OPSB 364-5T (HVAC MOTOR) W/DUAL SH GND MTG
42LYH067

CD0005





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.

CD0005

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
CD0005		FILE: AAA00005140	MDL: –
		MTL: –	3PH, DV, 9 LEADS