

**BALDOR • RELIANCE**

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# Customer information packet

## VHECP4107T

25HP, 3520RPM, 3PH, 60HZ, 284HP, 0954M, TEFC

Class - None

Division - Not Applicable

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## Specifications

Enclosure	TEFC
Frame	284HP
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	25.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	CSA CSA EEV UR
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	56.000 A @ 230.0 V 64.000 A @ 208.0 V 28.000 A @ 460.0 V
Design Code	A
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	92.4 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

## Part detail

Revision	AK
Type	AC
Mech. spec.	09G614
Base	
Status	PRD/A
Elec. spec.	09WGY357
Layout	09LYG614
Eff. date	04-01-2025
CD Diagram	CD0180
Poles	02
Leads	9#10
Proprietary	False
Created date	01-01-0001

Heater Indicator	No Heater
High Voltage Full Load Amps	28.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	J
Lifting Lugs	Vertical Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0950M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	25.72 IN
Power Factor	91
Product Family	Super-E Chemical Processing
Pulley End Bearing Type	Ball
Pulley Face Code	P-Base
Pulley Shaft Indicator	P-Base Groove & Key
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.125 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	3530 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**

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**Nameplate**

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<b>NP1260</b>									
<b>CAT.NO.</b>	VHECP4107T								
<b>SPEC.</b>	09G614Y357								
<b>HP</b>	25								
<b>VOLTS</b>	230/460								
<b>AMP</b>	56/28								
<b>RPM</b>	3530								
<b>FRAME</b>	284HP	<b>HZ</b>	60	<b>PH</b>	3				
<b>SER.F.</b>	1.15	<b>CODE</b>	J	<b>DES</b>	A	<b>CL</b>	F		
<b>NEMA-NOM-EFF</b>	92.4	<b>PF</b>	91						
<b>RATING</b>	40C AMB-CONT								
<b>CC</b>	010A								
<b>DE</b>	6311	<b>ODE</b>	6208						
<b>ENCL</b>	TEFC	<b>SN</b>							

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**AC Induction Motor Performance Data**

Record # 1971

Typical performance - not guaranteed values

<b>Winding: 09WGY357-R001</b>		<b>Type: 0950M</b>		<b>Enclosure: TEFC</b>	
<b>Nameplate Data</b>			<b>460 V, 60 Hz: High Voltage Connection</b>		
<b>Rated Output (HP)</b>	25	<b>Full Load Torque</b>	37.2 LB-FT		
<b>Volts</b>	230/460	<b>Start Configuration</b>	direct on line		
<b>Full Load Amps</b>	56/28	<b>Breakdown Torque</b>	139 LB-FT		
<b>R.P.M.</b>	3530	<b>Pull-up Torque</b>	67.2 LB-FT		
<b>Hz</b>	60	<b>Locked-rotor Torque</b>	78.3 LB-FT		
<b>NEMA Design Code</b>	A	<b>Starting Current</b>	236 A		
<b>Service Factor (S.F.)</b>	1.15	<b>No-load Current</b>	7.8 A		
<b>NEMA Nom. Eff.</b>	92.4	<b>Line-line Res. @ 25°C</b>	0.286 Ω		
<b>Rating - Duty</b>	40C AMB-CONT	<b>Temp. Rise @ Rated Load</b>	64°C		
<b>S.F. Amps</b>		<b>Temp. Rise @ S.F. Load</b>	78°C		
		<b>Locked-rotor Power Factor</b>	27.3		
		<b>Rotor inertia</b>	1.28 LB-FT <sup>2</sup>		

**Load Characteristics 460 V, 60 Hz, 25 HP**

<b>% of Rated Load</b>	<b>25</b>	<b>50</b>	<b>75</b>	<b>100</b>	<b>125</b>	<b>150</b>	<b>S.F.</b>
<b>Power Factor</b>	62	82	89	91	92	92	92
<b>Efficiency</b>	89.9	93	93.5	93.2	92.6	91.7	92.8
<b>Speed</b>	3583	3566	3549	3531	3512	3492	3520
<b>Line amperes</b>	10.45	15.33	21.15	27.5	34.3	41.5	31.6

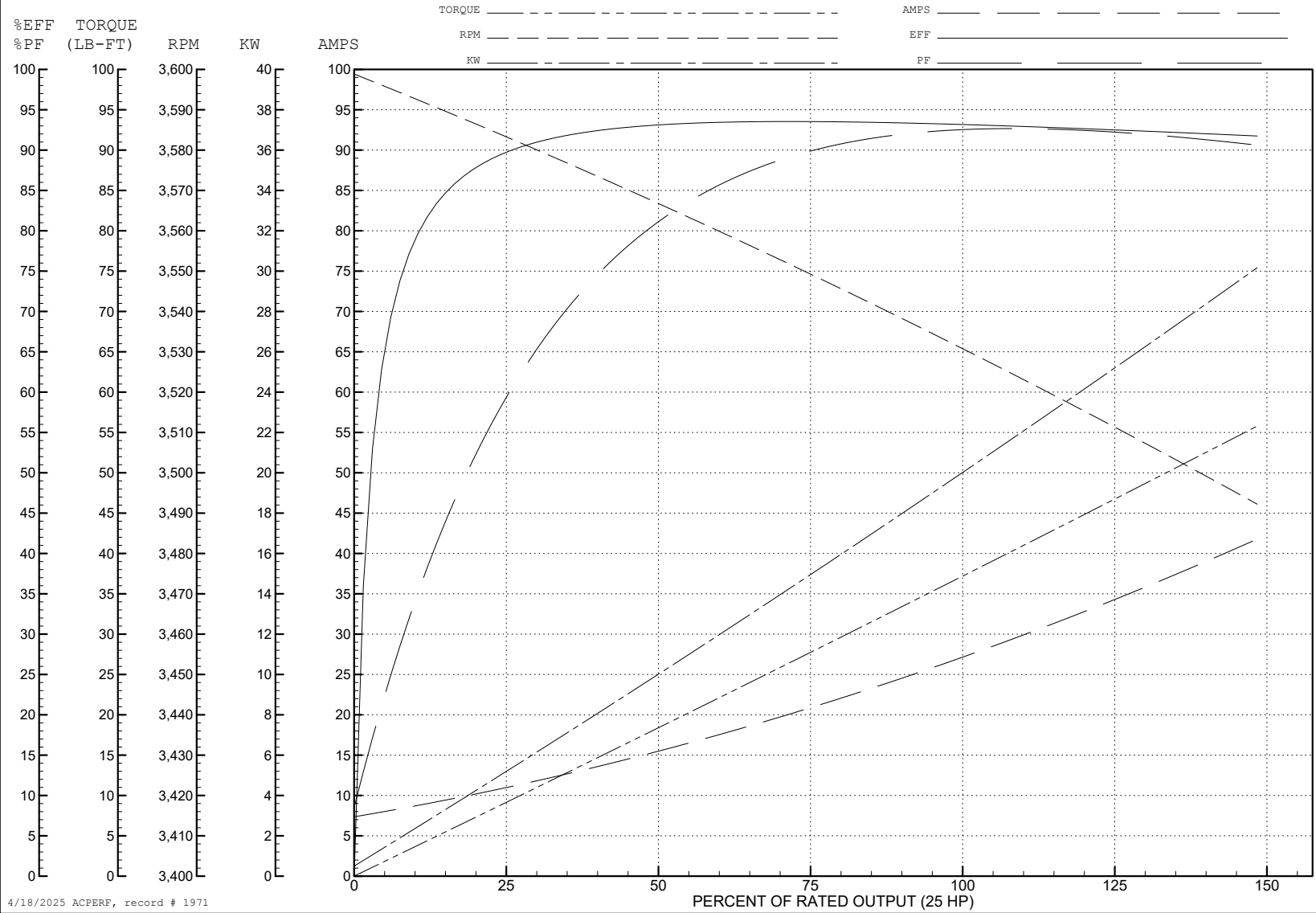
ABB Motors and Mechanical Inc.

WINDING # 09WGY357

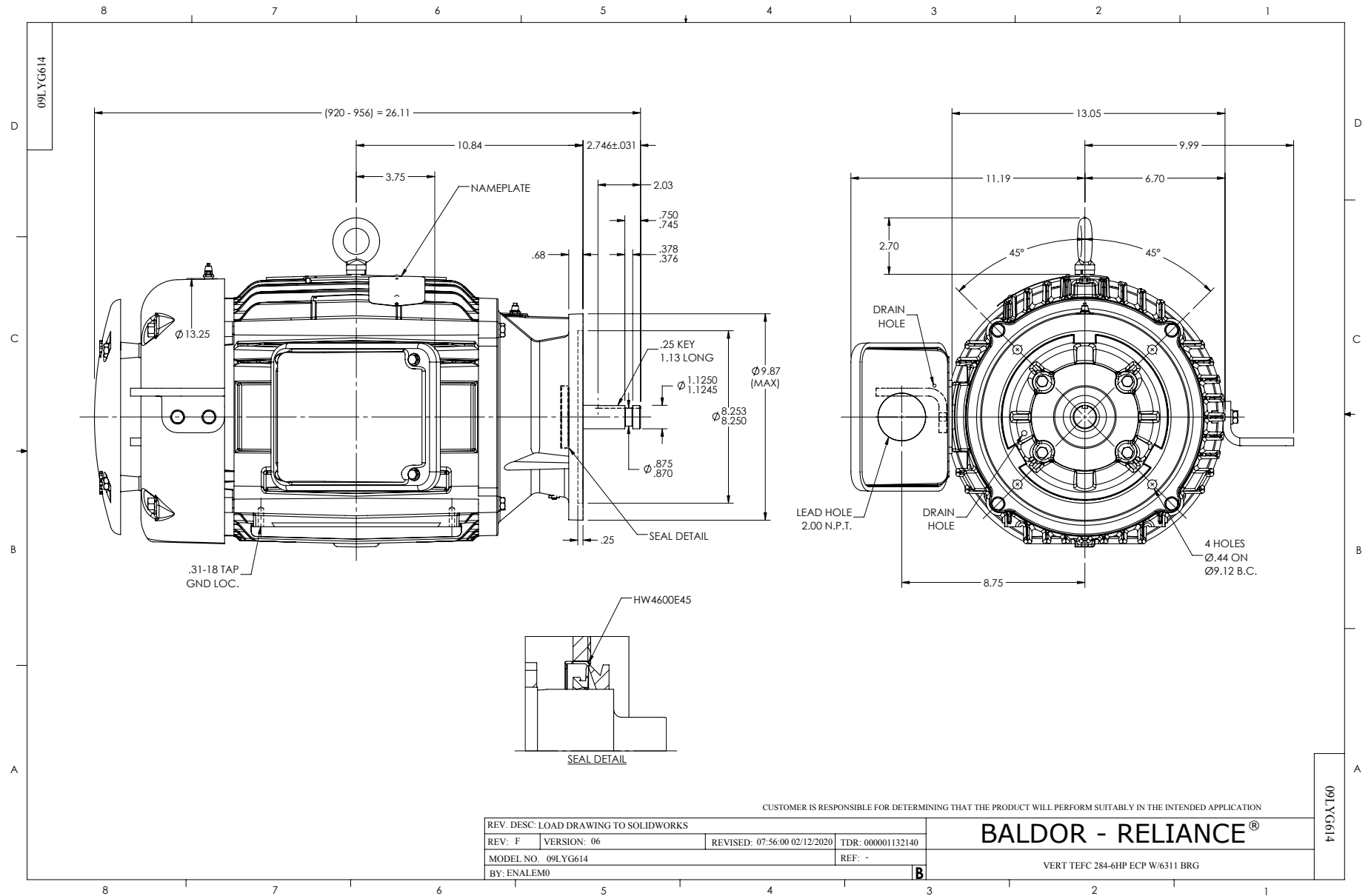
Typical performance - not guaranteed values.

25 HP 3 PH 60 HZ 3530 RPM 460 V 0950M

TORQUES (LB-FT): PO=139 PU=67.2 LR=78.3 LRA=236

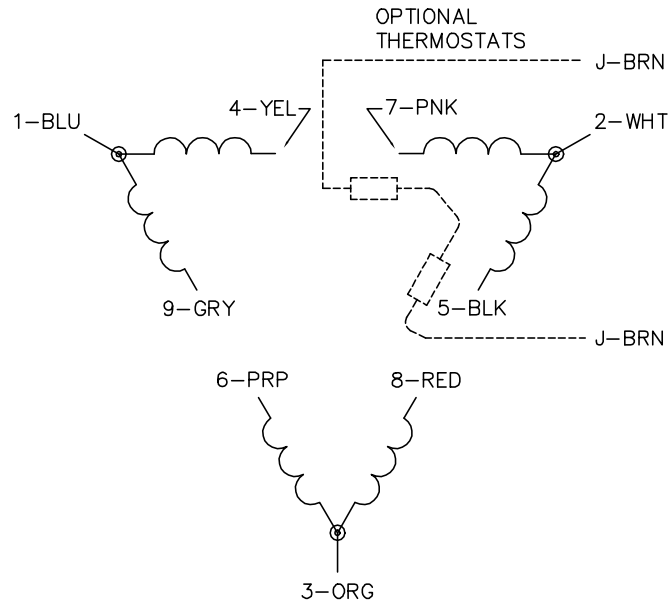


4/18/2025 ACPERF, record # 1971





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: -	© □	

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3PH, DV, 9 LEADS, DELTA CONNECTION

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