

**BALDOR • RELIANCE**

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# Customer information packet

## VEM2534T

30HP, 3530RPM, 3PH, 60HZ, 284TSC, 4040M, OPEN

## Specifications

Enclosure	OPEN
Frame	284TSC
Frame Material	Steel
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	30.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	208.0 V @ 60 HZ 230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA EEV NEMA PREMIUM NEMA_PREMIUM 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	70.000 A @ 230.0 V 76.000 A @ 208.0 V 35.000 A @ 460.0 V
Design Code	A
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Drip Cover Mounting
Front Shaft Indicator	None

## Part detail

Revision	P
Type	AC
Mech. spec.	40E101
Base	
Status	PRD/A
Elec. spec.	40WGX193
Layout	40LYE101
Eff. date	12-26-2024
CD Diagram	CD0180
Poles	02
Leads	9#8
Proprietary	False
Created date	05-01-2015

Heater Indicator	No Heater
High Voltage Full Load Amps	35.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	H
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	4040M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	25.09 IN
Power Factor	87
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No 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**

NP3554LUA										
<b>CAT.NO.</b>	VEM2534T			<b>P/N</b>				<b>ENCL</b>		<b>OPEN</b>
<b>SPEC.</b>	40E101X193G1	<b>CC</b>	010A	<b>FRAME</b>		284TSC	<b>SER.NO.</b>			
<b>HP</b>	30	<b>CLASS</b>		F	<b>HZ</b>	60				
<b>RPM</b>	3530	<b>PH</b>	3	<b>DES</b>		A				
<b>VOLTS</b>	208-230/460			<b>CODE</b>		H	<b>ODE BRG</b>	6309	<b>DE BRG</b>	6312
<b>AMPS</b>	76-70/35									
<b>RATING</b>	40C AMB-CONT			<b>NEMA-NOM-EFF</b>		91.7	<b>GREASE</b>	POLYREX EM		
<b>PF</b>	87	<b>SER.F.</b>	1.15	<b>CT30-60(2:1) VT3-60(20:1)</b>						
<b>USABLE AT</b>	50HZ 30HP 190/380V 84/42A			<b>SF 1.0</b>						
<b>HTR-VOLTS</b>	<b>HTR-AMPS</b>	<b>MAX. SPACE HEATER TEMP.</b>								

**AC Induction Motor Performance Data**

Record # 33084

Typical performance - not guaranteed values

<b>Winding: 40WGX193-R001</b>		<b>Type: 4040M</b>		<b>Enclosure: OPSB</b>	
<b>Nameplate Data</b>			<b>460 V, 60 Hz: High Voltage Connection</b>		
<b>Rated Output (HP)</b>	30	<b>Full Load Torque</b>	44.7 LB-FT		
<b>Volts</b>	208-230/460	<b>Start Configuration</b>	direct on line		
<b>Full Load Amps</b>	76-70/35	<b>Breakdown Torque</b>	175 LB-FT		
<b>R.P.M.</b>	3530	<b>Pull-up Torque</b>	59.3 LB-FT		
<b>Hz</b>	60 <b>Phase</b>	3	<b>Locked-rotor Torque</b>	78.3 LB-FT	
<b>NEMA Design Code</b>	A <b>KVA Code</b>	H	<b>Starting Current</b>	240 A	
<b>Service Factor (S.F.)</b>	1.15	<b>No-load Current</b>	11.2 A		
<b>NEMA Nom. Eff.</b>	91.7 <b>Power Factor</b>	0	<b>Line-line Res. @ 25°C</b>	0.21802 Ω	
<b>Rating - Duty</b>	40C AMB-CONT	<b>Temp. Rise @ Rated Load</b>	23°C		
<b>S.F. Amps</b>		<b>Temp. Rise @ S.F. Load</b>	28°C		
		<b>Locked-rotor Power Factor</b>	24		
		<b>Rotor inertia</b>	1.72 LB-FT <sup>2</sup>		

**Load Characteristics 460 V, 60 Hz, 30 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>	58	77	84	87	88	89	88
<b>Efficiency</b>	89.3	92.8	93.4	93.2	92.6	91.8	92.8
<b>Speed</b>	3582.7	3568.7	3554.6	3538.7	3522.3	3504.1	3529
<b>Line amperes</b>	14.4	20.3	27.2	35.1	43.4	52.1	40.1

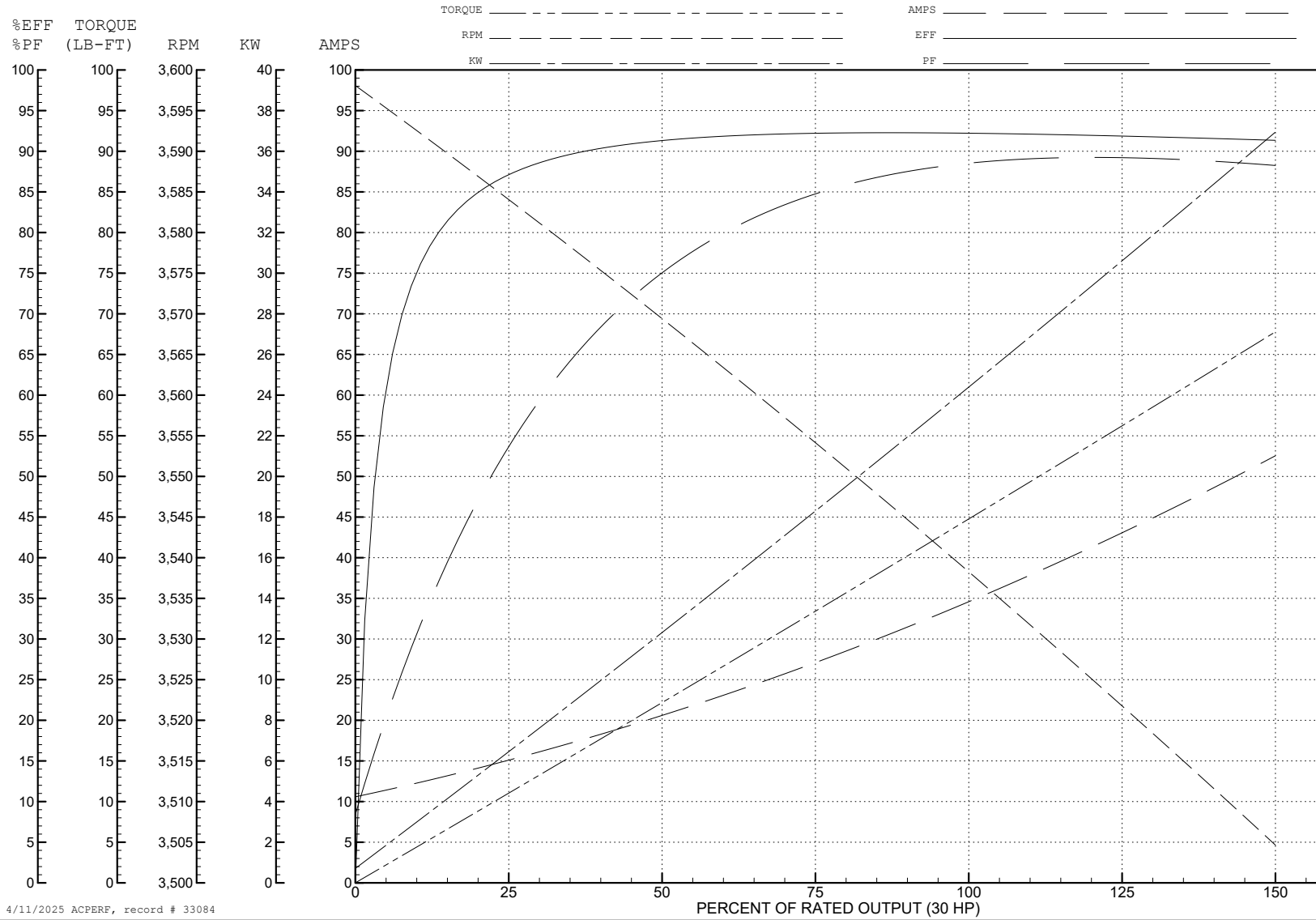
ABB Motors and Mechanical Inc.

WINDING # 40WGX193

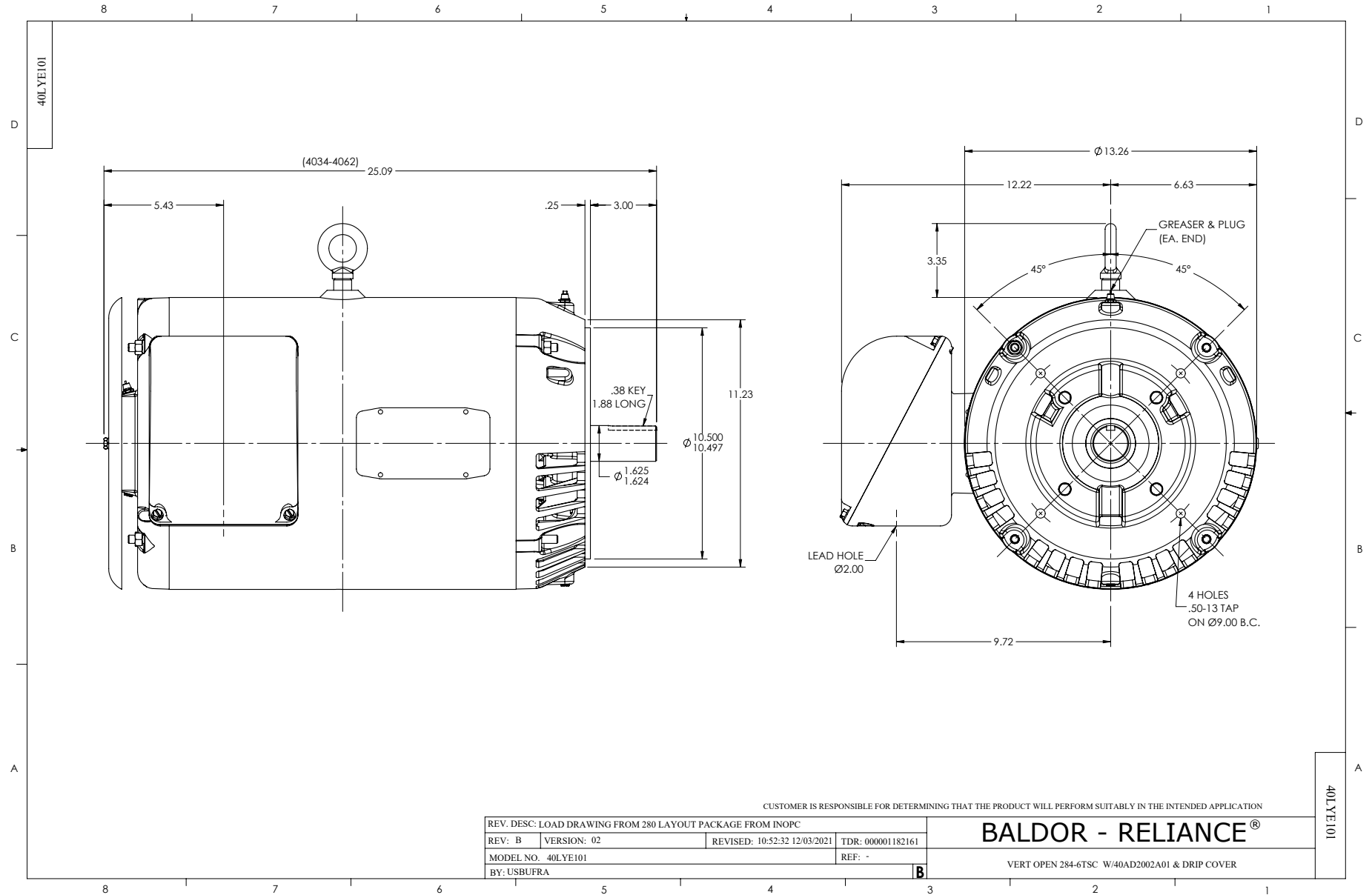
Typical performance - not guaranteed values.

30 HP 3 PH 60 HZ 3530 RPM 460 V 4040M

TORQUES (LB-FT): PO=175 PU=59.3 LR=78.3 LRA=240



4/11/2025 ACPERF, record # 33084



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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