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# Customer information packet

## EM4107T-5

25HP, 3525RPM, 3PH, 60HZ, 284TS, 0946M, TEFC, F

Class - None

Division - Not Applicable

## Specifications

Enclosure	TEFC
Frame	284TS
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	575.0 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	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	23.000 A @ 575.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
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	23.0 a

## Part detail

Revision	J
Type	AC
Mech. spec.	09F629
Base	
Status	PRD/A
Elec. spec.	09WGT369
Layout	09LYF629
Eff. date	06-27-2024
CD Diagram	CD0006
Poles	02
Leads	3#10
Proprietary	False
Created date	03-14-2018

<b>Insulation Class</b>	F
<b>Inverter Code</b>	Inverter Ready
<b>KVA Code</b>	J
<b>Lifting Lugs</b>	Standard Lifting Lugs
<b>Locked Bearing Indicator</b>	Locked Bearing
<b>Motor Lead Exit</b>	Ko Box
<b>Motor Lead Quantity/Wire Size</b>	3 @ 10 AWG
<b>Motor Lead Termination</b>	Flying Leads
<b>Motor Standards</b>	NEMA
<b>Motor Type</b>	0946M
<b>Mounting Arrangement</b>	F1
<b>Number of Poles</b>	2
<b>Overall Length</b>	24.77 IN
<b>Power Factor</b>	88
<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>	1.625 IN
<b>Shaft Extension Location</b>	Pulley End
<b>Shaft Ground Indicator</b>	No Shaft Grounding
<b>Shaft Rotation</b>	Reversible
<b>Shaft Slinger Indicator</b>	Shaft Slinger
<b>Speed</b>	3525 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**

**NP3443L**

<b>CAT.NO.</b>	EM4107T-5	<b>CUST. P/N</b>				<b>ENCL</b>	<b>TEFC</b>
<b>SPEC.</b>	09F629T369G1	<b>CC</b>	010A	<b>FRAME</b>	284TS	<b>SER.NO.</b>	
<b>HP</b>	25	<b>CLASS</b>		F	<b>HZ</b>	60	
<b>R.P.M.</b>	3525	<b>PH</b>	3	<b>DES</b>	A		
<b>VOLTS</b>	575	<b>CODE</b>		J	<b>ODE BRG</b>	6208	<b>DE BRG</b> 6311
<b>AMPS</b>	23						
<b>RATING</b>	40C AMB-CONT	<b>NEMA NOM. EFF.</b>			91.7	<b>GREASE</b>	POLYREX EM
<b>P.F.</b>	88	<b>SER.F.</b>	1.15	<b>VPWM INVERTER READY</b>			
<b>HTR-VOLTS</b>		<b>HTR-AMPS</b>		<b>HTR-WATTS</b>			

**Accessories**

<b>Part number</b>	<b>Description</b>	<b>Multiplier</b>
09-1310	C FACE KIT	A8

**AC Induction Motor Performance Data**

Record # 59038

Typical performance - not guaranteed values

<b>Winding:</b> 09WGT369-R001		<b>Type:</b> 0946M		<b>Enclosure:</b> TEFC	
<b>Nameplate Data</b>			<b>575 V, 60 Hz: Single Voltage Motor</b>		
<b>Rated Output (HP)</b>	25	<b>Full Load Torque</b>	37.15 LB-FT		
<b>Volts</b>	575	<b>Start Configuration</b>	direct on line		
<b>Full Load Amps</b>	23	<b>Breakdown Torque</b>	120 LB-FT		
<b>R.P.M.</b>	3525	<b>Pull-up Torque</b>	71.02 LB-FT		
<b>Hz</b>	60 <b>Phase</b>	3	<b>Locked-rotor Torque</b>	85.16 LB-FT	
<b>NEMA Design Code</b>	A	<b>KVA Code</b>	J	<b>Starting Current</b>	200 A
<b>Service Factor (S.F.)</b>	1.15		<b>No-load Current</b>	8.28 A	
<b>NEMA Nom. Eff.</b>	91.7	<b>Power Factor</b>	88	<b>Line-line Res. @ 25°C</b>	0.441 Ω
<b>Rating - Duty</b>	40C AMB-CONT		<b>Temp. Rise @ Rated Load</b>	84°C	
<b>S.F. Amps</b>			<b>Temp. Rise @ S.F. Load</b>	103°C	
			<b>Locked-rotor Power Factor</b>	29.4	
			<b>Rotor inertia</b>	1.17 LB-FT <sup>2</sup>	

**Load Characteristics 575 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>	54	75	84	88	90	90	89
<b>Efficiency</b>	87	91.3	92.2	91.9	91.1	90.2	91.4
<b>Speed</b>	3582	3565	3550	3529	3509	3487	3517
<b>Line amperes</b>	9.93	13.56	18.15	23.1	28.66	34.35	26.4

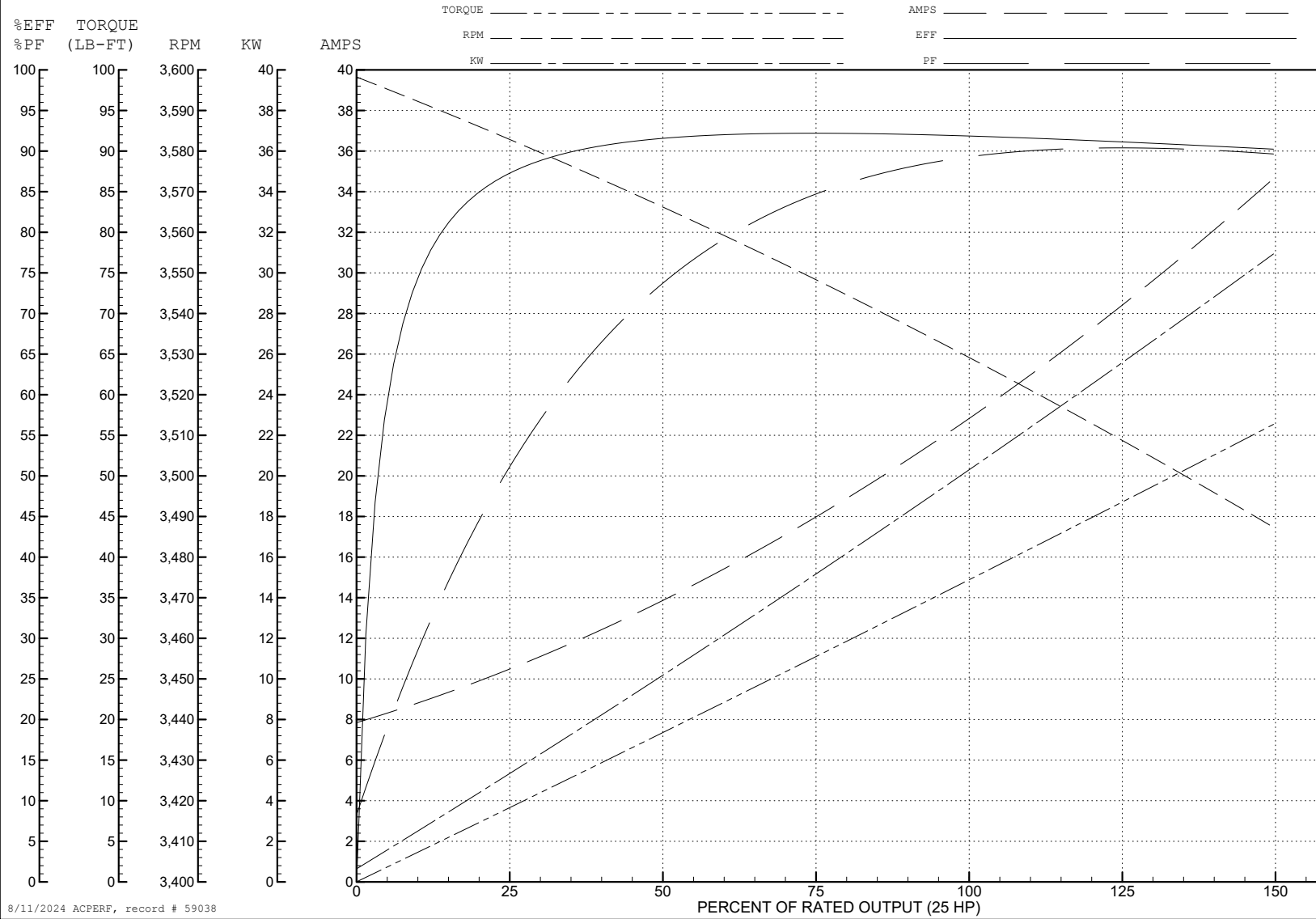
ABB Motors and Mechanical Inc.

WINDING # 09WGT369

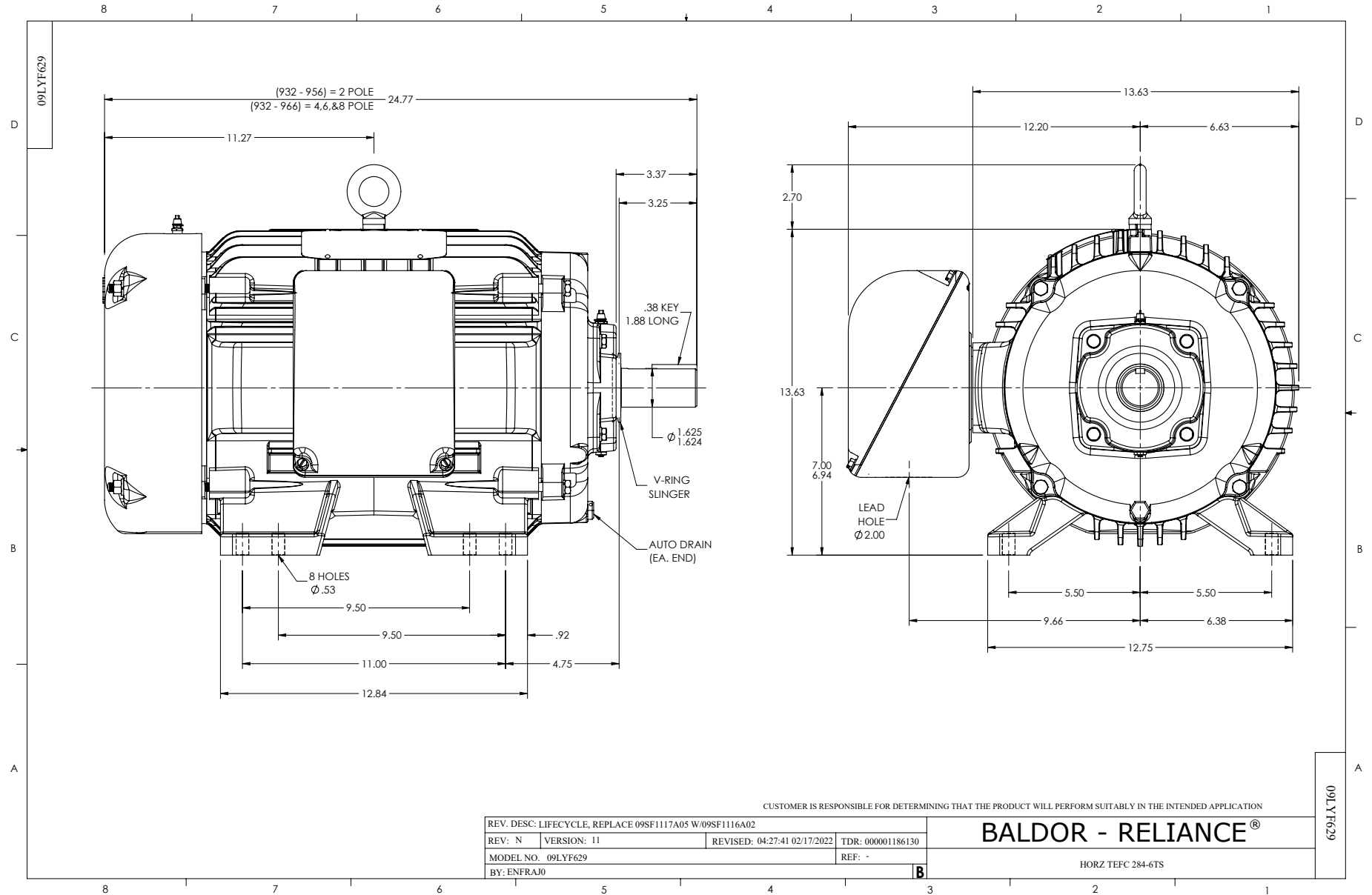
Typical performance - not guaranteed values.

25 HP 3 PH 60 HZ 3525 RPM 575 V 0946M

TORQUES (LB-FT): PO=120 PU=71.02 LR=85.16 LRA=200



8/11/2024 ACPERF, record # 59038





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

REV. DESC: ADD CLASS CONN00000007		
REV. LTR: E	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\141	REVISED: 10:24:49 02/19/2019	BY: ENBRIRO
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3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

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