



Customer information packet

SPM4107TS

25HP, 3545RPM, 3PH, 60HZ, 284TS, 1048M, TEFC, F

Class - CLI GP A,B,C,D; CLII GP F,G

Division - Division II

Specifications

Enclosure	TEFC
Frame	284TS
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP A,B,C,D; CLII GP F,G
Haz Area Division	Division II
Motor Letter Type	Three Phase
Output @ Frequency	25.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA CURUSEEV NEMA PREMIUM NEMA_PREMIUM WEEE
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	56.000 A @ 230.0 V 28.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None

Part detail

Revision	D
Type	AC
Mech. spec.	10T011
Base	
Status	PRD/A
Elec. spec.	10WGZ894
Layout	10LYT011
Eff. date	11-03-2025
CD Diagram	CD0180
Poles	02
Leads	9#10
Proprietary	False
Created date	09-26-2023

Haz Area Temp Code	T3B
Heater Indicator	No Heater
High Voltage Full Load Amps	28.0 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	4800 rpm
Motor Lead Quantity/Wire Size	9 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1048M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	26.75 IN
Power Factor	88
Product Family	Chemical Processing (Not DC)
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3545 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

NP4439B05C23L

[illegible]

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AC Induction Motor Performance Data

Record # 101436

Preliminary Data Sheet

Winding: 10WGZ894-R001				Type: 1048M		Enclosure: TEFC	
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		25		Full Load Torque		36.52 LB-FT	
Volts		230/460		Start Configuration		direct on line	
Full Load Amps		56/28		Breakdown Torque		178 LB-FT	
R.P.M.		3545		Pull-up Torque		69.5 LB-FT	
Hz		60		Phase		3	
NEMA Design Code		A		KVA Code		J	
Service Factor (S.F.)		1.15		Starting Current		244 A	
NEMA Nom. Eff.		93		Power Factor		88	
Rating - Duty		40C		AMB-CONT		Temp. Rise @ Rated Load	
S.F. Amps		64/32		Temp. Rise @ S.F. Load		69°C	
				Locked-rotor Power Factor		22.6	
				Rotor inertia		2.06 lb-ft²	

Load Characteristics 460 V, 60 Hz, 25 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	53	77	85	88	90	91	89
Efficiency	85.1	91.5	92.7	93.1	92.8	92.1	92.9
Speed	3586	3572	3560	3544	3530	3514	3536
Line amperes	11.73	16.2	21.57	28.06	34.58	41.48	32

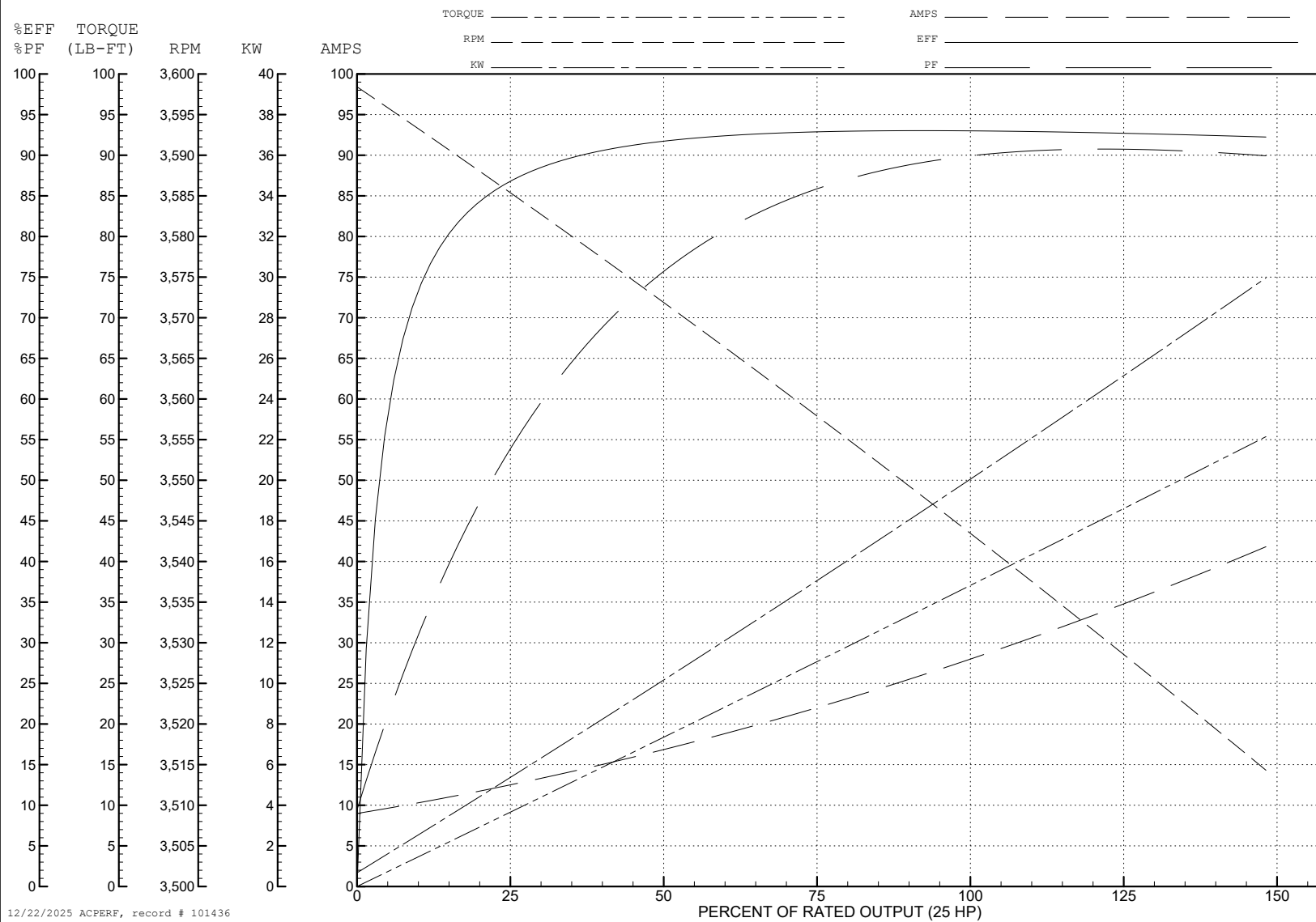
ABB Motors and Mechanical Inc.

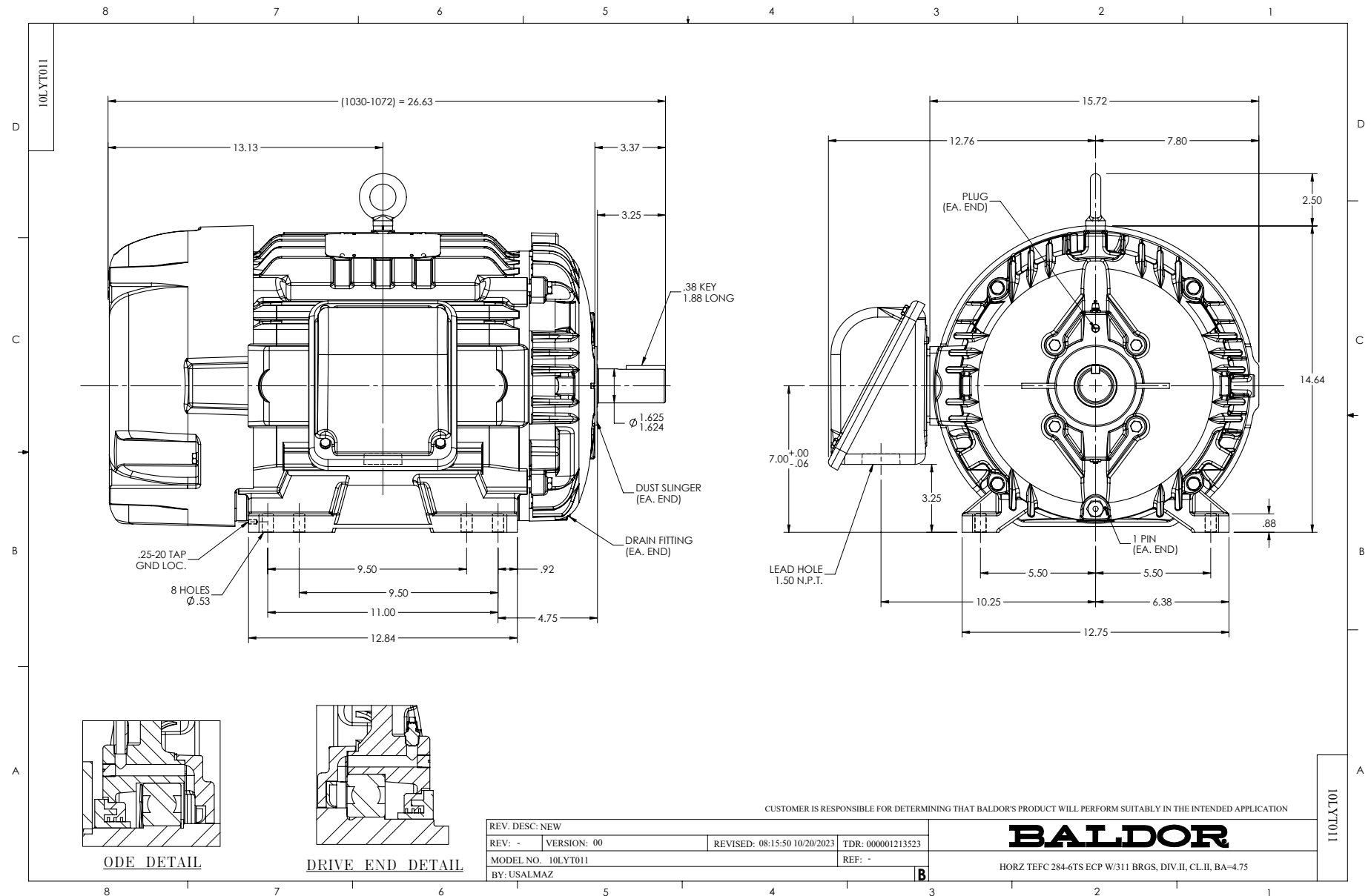
WINDING # 10WGZ894

Typical performance - not guaranteed values.

25 HP 3 PH 60 HZ 3545 RPM 460 V 1048M

TORQUES (LB-FT): PO=178 PU=69.5 LR=88.2 LRA=244





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: ENBRI0

MTL: —

**BALDOR - RELIANCE®**

3PH, DV, 9 LEADS, DELTA CONNECTION

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