ABB BALDOR RELIANCE

Customer information packet

VM4103T

25HP, 1760RPM, 3PH, 60HZ, 284TC, 0954M, TEFC, F
Class - None
Division - Not Applicable

Copyright © All product information within this document is subject to ABB Motors and Mechanical Inc. copyright © protection, unless otherwise noted.
11/19/2026 8:54:57 AM

Specifications

Enclosure	TEFC
Frame	284TC
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	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	CSA
	UR
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	30.000 A @ 460.0 V
	60.000 A @ 230.0 V
	64.000 A @ 208.0 V
Design Code	B
Drip Cover	No 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
Heater Indicator	No Heater

Part Detail

Revision	Q
Type	AC
Mech. spec.	09F684
Base	
Status	INA/A
Elec. spec.	09WGY900
Layout	09LYF684
Eff. date	09-01-2020
CD Diagram	CD0005
Poles	04
Leads	9#10
Proprietary	False
Created date	06-23-2006

High Voltage Full Load Amps	30.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	H
Lifting Lugs	Standard 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	0954M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	23.65 IN
Power Factor	85
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	1.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1760 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor

Nameplate

NP1256L									
CAT.NO.	VM4103T								
SPEC.	09F684Y900G1								
HP	25								
VOLTS	230/460								
AMP	60/30								
RPM	1760								
FRAME	284TC	**HZ**	60			**PH**	3		
SER.F.	1.15	**CODE**	H	**DES**	B	**CLASS**	F		
NEMA-NOM-EFF	92.4	**PF**	85						
RATING	40C AMB-CONT								
CC	010A								
DE	6311	**ODE**	6208						
ENCL	TEFC	**SN**							

AC Induction Motor Performance Data
Record # 36439
Typical performance - not guaranteed values

Winding: 09WGY900-R002	**Type:** 0954M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			25	**Full Load Torque**	74.3 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			60/30	**Breakdown Torque**	269.5 LB-FT
R.P.M.			1760	**Pull-up Torque**	110.7 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	149.3 LB-FT
NEMA Design Code	B	**KVA Code**	H	**Starting Current**	215.9 A
Service Factor (S.F.)			1.15	**No-load Current**	11.8 A
NEMA Nom. Eff.	92.4	**Power Factor**	85	**Line-line Res. @ 25ºC**	0.315 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	66°C
S.F. Amps				**Temp. Rise @ S.F. Load**	81°C
				Locked-rotor Power Factor	34
				Rotor inertia	2.35 LB-FT2

Load Characteristics 460 V, 60 Hz, 25 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	49	71	81	85	87	87	86
Efficiency	88.1	92.2	92.8	92.5	91.8	90.8	92.1
Speed	1790	1782	1772	1762	1751	1739	1755
Line amperes	13.6	17.8	23.4	29.7	36.8	44.1	34

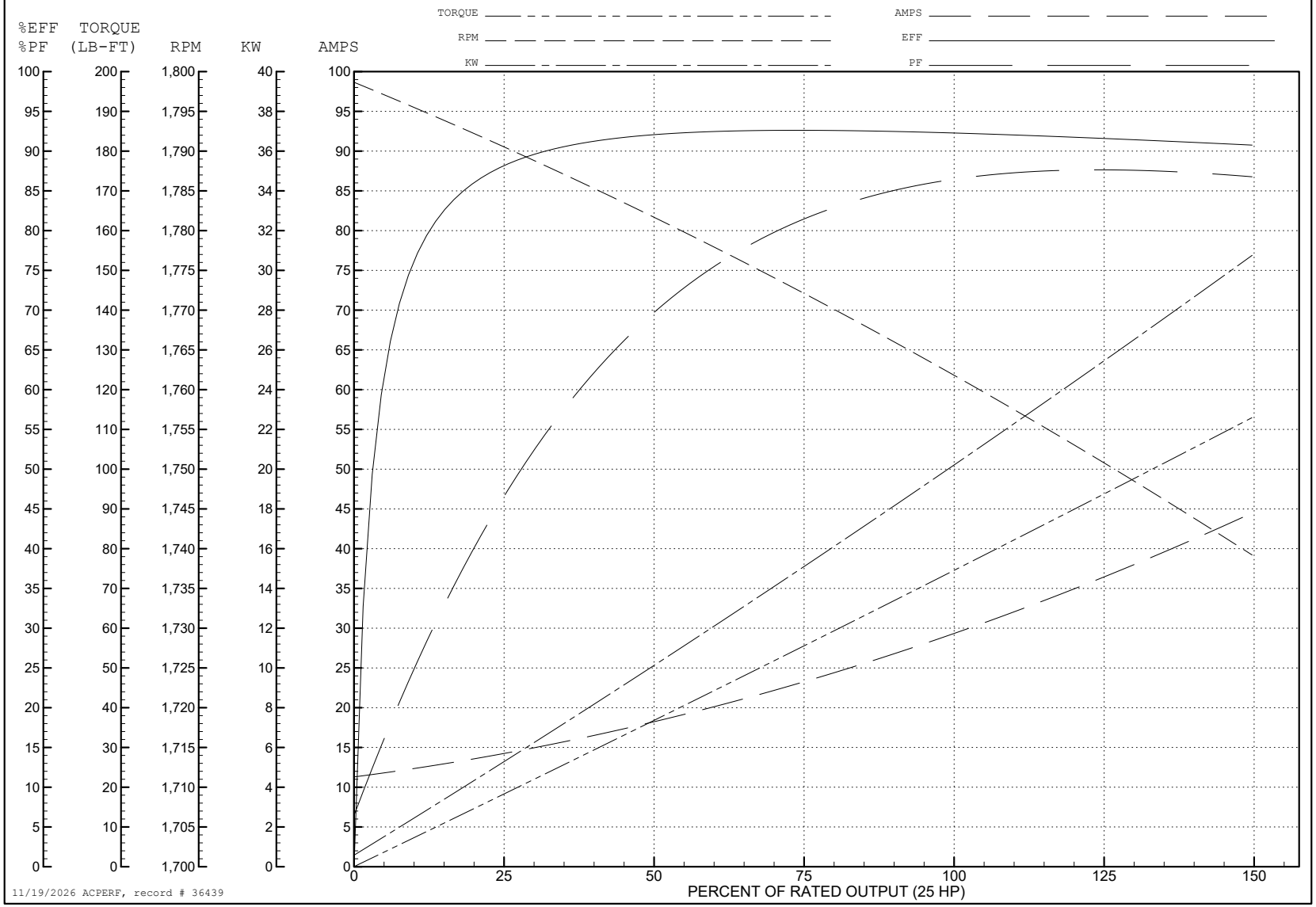
ABB Motors and Mechanical Inc.

WINDING # 09WGY900

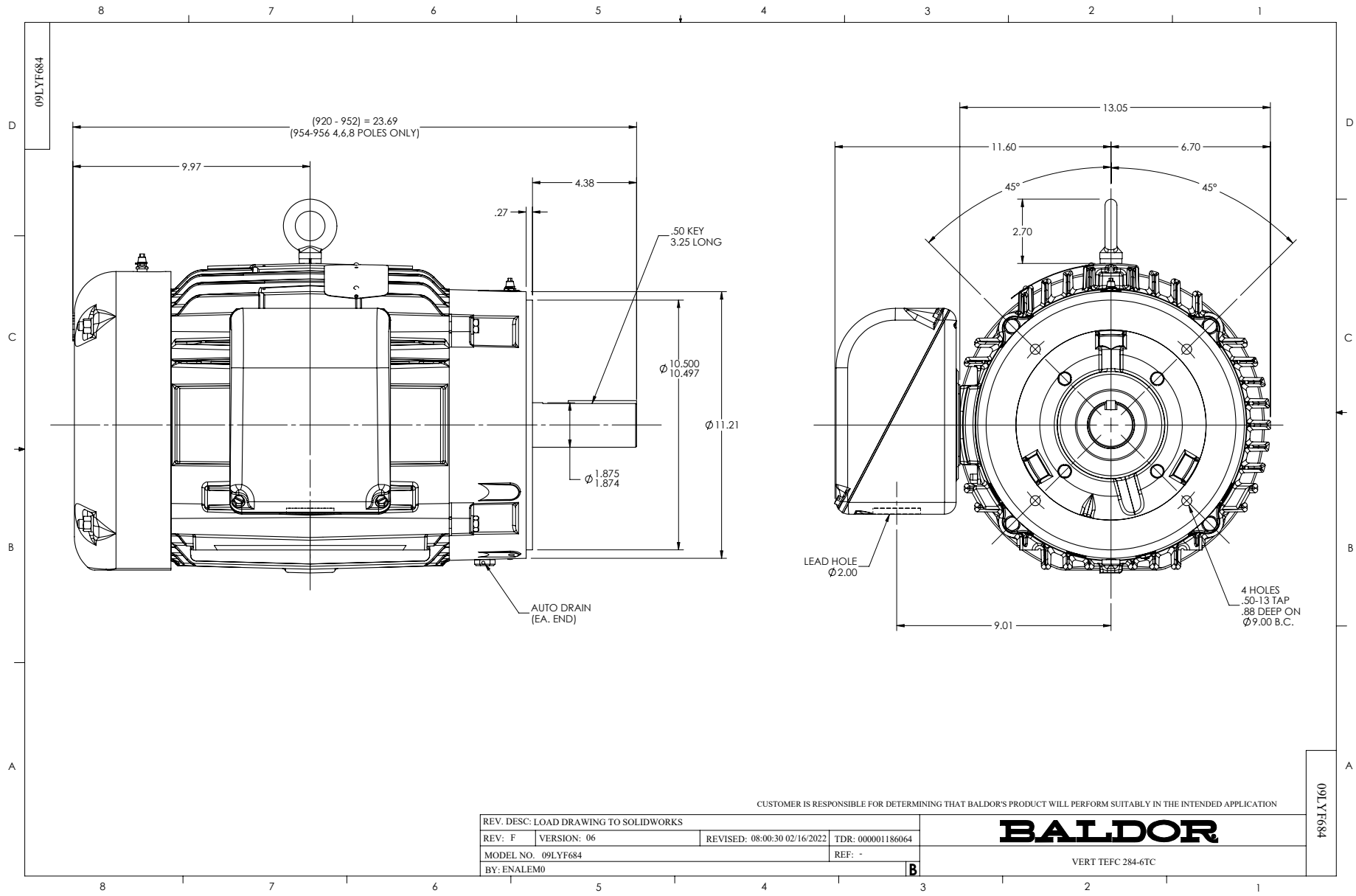
25 HP 3 PH 60 HZ 1760 RPM 460 V 0954M

Typical performance - not guaranteed values.

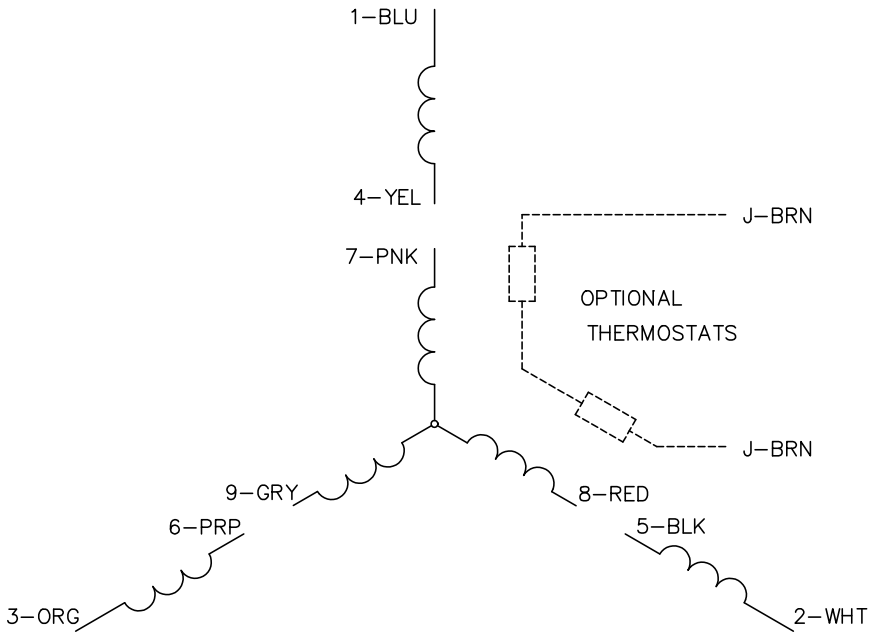
TORQUES(LB-FT): PO=269.5 PU=110.7 LR=149.3 LRA=215.9

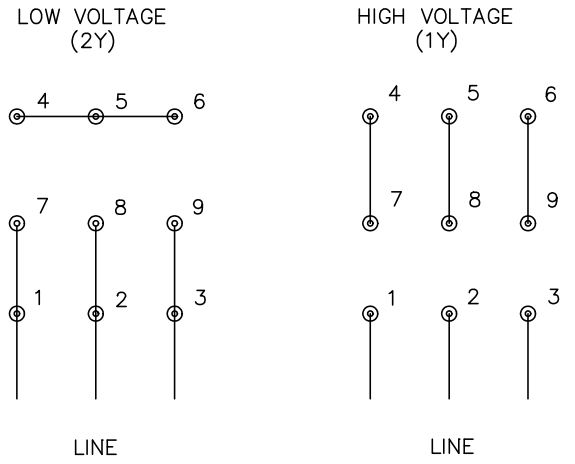


11/19/2026 ACPERF, record # 36439


09LYF684
(920 - 952) = 23.69
(954-956 4,6,8 POLES ONLY)
9.97
4.38
.27
.50 KEY
3.25 LONG
Ø 10.500
10.497
Ø 11.21
Ø 1.875
1.874
AUTO DRAIN
(EA. END)
13.05
11.60
6.70
45°
45°
2.70
LEAD HOLE
Ø 2.00
4 HOLES
.50-13 TAP
.88 DEEP ON
Ø 9.00 B.C.
9.01
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD DRAWING TO SOLIDWORKS
REV: F
VERSION: 06
REVISED: 08:00:30 02/16/2022
TDR: 000001186064
MODEL NO. 09LYF684
REF: -
BY: ENALEM0
B
BALDOR
VERT TEFC 284-6TC
09LYF684

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