BALDOR • RELIANCE

Product Information Packet

EM4103T-5G

25HP,1770RPM,3PH,60HZ,284T,1056M,TEFC,F1

Part Detail

Revision:	E	**Status:**	PRD/A	**Change #:**		**Proprietary:**	No
Type:	AC	**Elec. Spec:**	10WGZ620	**CD Diagram:**	CD0006	**Mfg Plant:**	
Mech. Spec:	10H279	**Layout:**	10LYH279	**Poles:**	04	**Created Date:**	01-26-2017
Base:	RG	**Eff. Date:**	06-28-2018	**Leads:**	3#10		

Specs

Catalog Number:	EM4103T-5G	**Inverter Code:**	Inverter Ready
Enclosure:	TEFC	**KVA Code:**	F
Frame:	284T	**Lifting Lugs:**	Standard Lifting Lugs
Frame Material:	Iron	**Locked Bearing Indicator:**	Locked Bearing
Output @ Frequency:	25.000 HP @ 60 HZ	**Motor Lead Quantity/Wire Size:**	3 @ 10 AWG
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ	**Motor Lead Exit:**	Ko Box
Voltage @ Frequency:	575.0 V @ 60 HZ	**Motor Lead Termination:**	Flying Leads
XP Class and Group:	None	**Motor Type:**	1056M
XP Division:	Not Applicable	**Mounting Arrangement:**	F1
Agency Approvals:	CSA	**Power Factor:**	85
	CSA EEV	**Product Family:**	General Purpose
	UR	**Pulley End Bearing Type:**	Ball
Auxillary Box:	No Auxillary Box	**Pulley Face Code:**	Standard
Auxillary Box Lead Termination:	None	**Pulley Shaft Indicator:**	Standard
Base Indicator:	Rigid	**Rodent Screen:**	None
Bearing Grease Type:	Polyrex EM (-20F +300F)	**Shaft Extension Location:**	Pulley End
Blower:	None	**Shaft Ground Indicator:**	Shaft Grounding
Current @ Voltage:	24.000 A @ 575.0 V	**Shaft Rotation:**	Reversible

Design Code:	B	**Shaft Slinger Indicator:**	Shaft Slinger
Drip Cover:	No Drip Cover	**Speed Code:**	Single Speed
Duty Rating:	CONT	**Motor Standards:**	NEMA
Electrically Isolated Bearing:	Not Electrically Isolated	**Starting Method:**	Direct on line
Feedback Device:	NO FEEDBACK	**Thermal Device - Bearing:**	None
Front Face Code:	Standard	**Thermal Device - Winding:**	None
Front Shaft Indicator:	None	**Vibration Sensor Indicator:**	No Vibration Sensor
Heater Indicator:	No Heater	**Winding Thermal 1:**	None
Insulation Class:	H	**Winding Thermal 2:**	None

Nameplate NP3443L

CAT.NO.	EM4103T-5G			**CUST. P/N**				**ENCL**	TEFC
SPEC.	10H279Z620G1	**CC**	010A	**FRAME**	284T			**SER.NO.**	
HP	25			**CLASS**	H	**HZ**	60		
R.P.M.	1770			**PH**	3	**DES**	B		
VOLTS	575			**CODE**	F	**ODE BRG**	6309	**DE BRG**	6311
AMPS	24			**USABLE AT 208V**					
RATING	40C AMB-CONT			**NEMA NOM. EFF.**	93.6			**GREASE**	POLYREX EM
P.F.	85	**SER.F.**	1.15	**VPWM INVERTER READY**					
HTR-VOLTS		**HTR-AMPS**		**HTR-WATTS**					

AC Induction Motor Performance Data

Record # 62102 - Typical performance - not guaranteed values

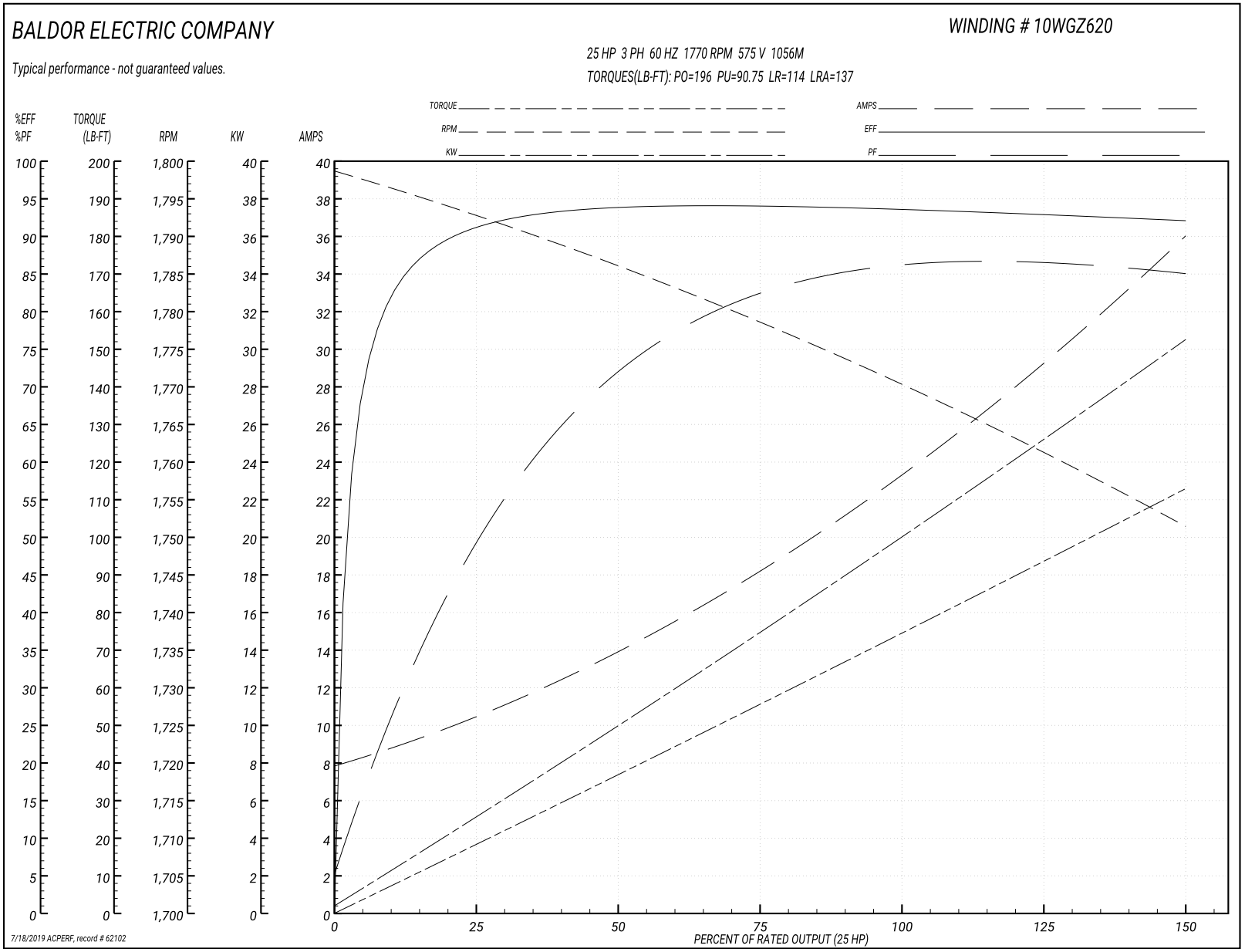
Winding: 10WGZ620-R003	**Type:** 1056M	**Enclosure:** TEFC

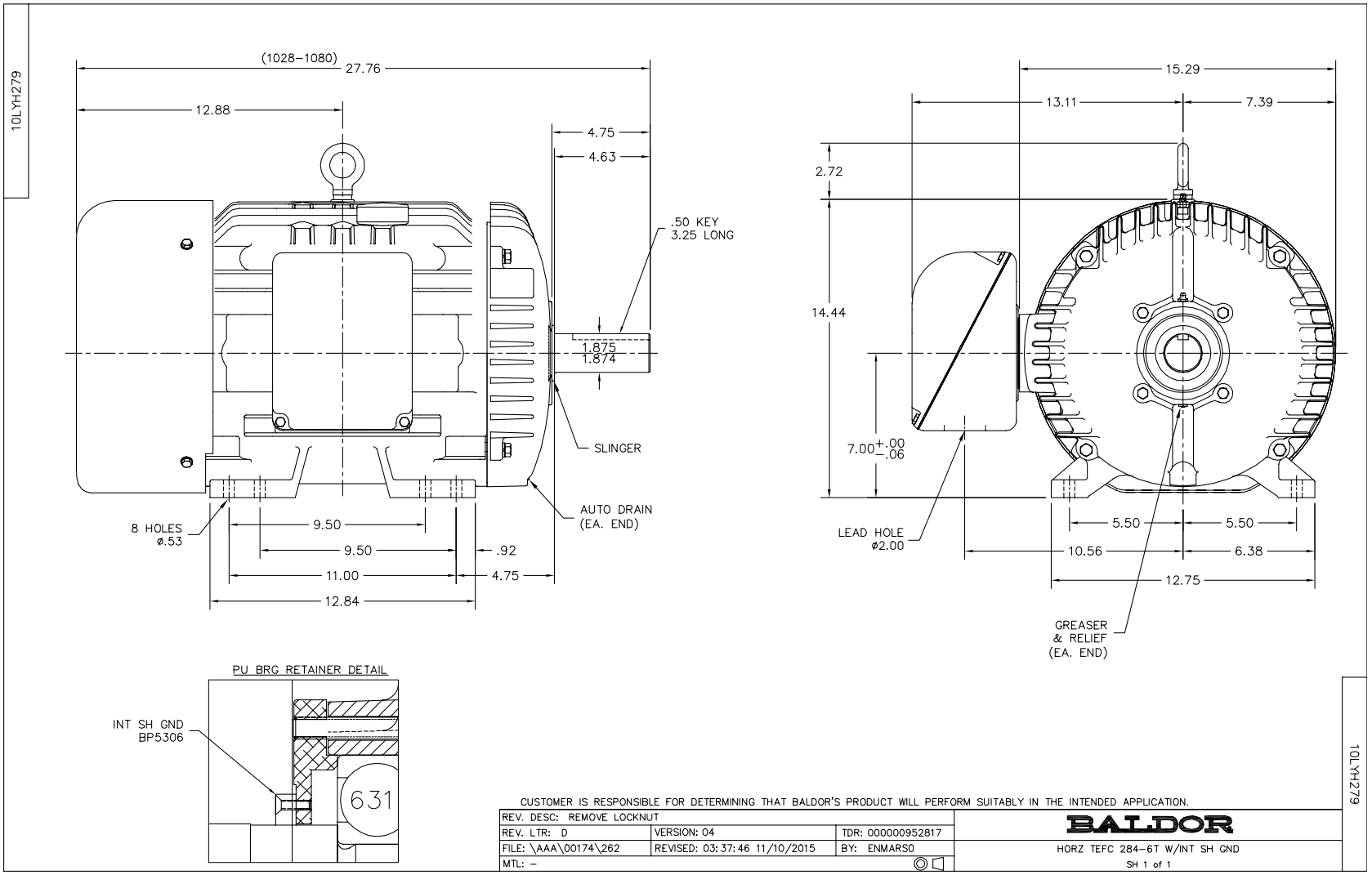
Nameplate Data				575 V, 60 Hz: Single Voltage Motor	
Rated Output (HP)	25			Full Load Torque	74.36 LB-FT
Volts	575			Start Configuration	direct on line
Full Load Amps	24			Breakdown Torque	196 LB-FT
R.P.M.	1770			Pull-up Torque	90.75 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	114 LB-FT
NEMA Design Code	B	KVA Code	F	Starting Current	137 A
Service Factor (S.F.)	1.15			No-load Current	8.24 A
NEMA Nom. Eff.	93.6	Power Factor	85	Line-line Res. @ 25ºC	0.463 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	54°C
S.F. Amps				Temp. Rise @ S.F. Load	67°C
				Locked-rotor Power Factor	30.4
				Rotor inertia	4.46 LB-FT2

Load Characteristics 575 V, 60 Hz, 25 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	51	73	82	85	86	86	86
Efficiency	91	93.8	94.1	93.7	92.8	92.1	93.1
Speed	1793	1785	1779	1771	1762	1751	1766
Line amperes	9.93	13.55	18.28	23.59	29.19	35.78	27

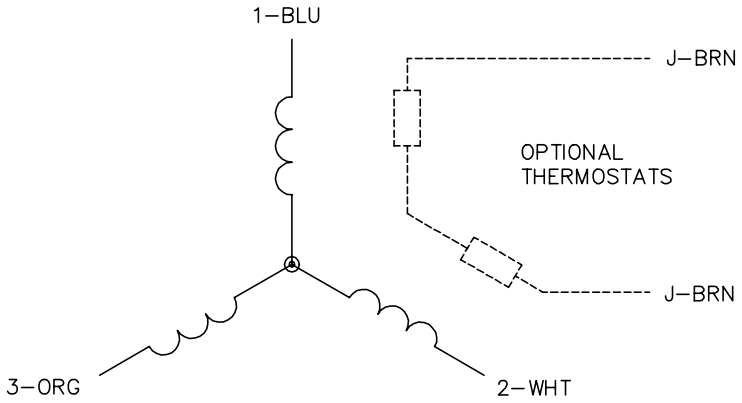
Performance Graph at 575V, 60Hz, 25.0HP Typical performance - Not guaranteed values

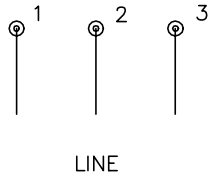



10LYH279
(1028–1080)
27.76
12.88
4.75
4.63
.50 KEY
3.25 LONG
1.875
1.874
SLINGER
AUTO DRAIN
(EA. END)
8 HOLES
ø.53
9.50
9.50
.92
11.00
4.75
12.84
15.29
13.11
7.39
2.72
14.44
7.00 +.00 −.06
LEAD HOLE
ø2.00
5.50
5.50
10.56
6.38
12.75
GREASER
& RELIEF
(EA. END)
PU BRG RETAINER DETAIL
INT SH GND
BP5306
631
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.
REV. DESC: REMOVE LOCKNUT
REV. LTR: D
VERSION: 04
TDR: 000000952817
FILE: \AAA\00174\262
REVISED: 03:37:46 11/10/2015
BY: ENMARSO
MTL: –
BALDOR
HORZ TEFC 284–6T W/INT SH GND
SH 1 of 1
10LYH279

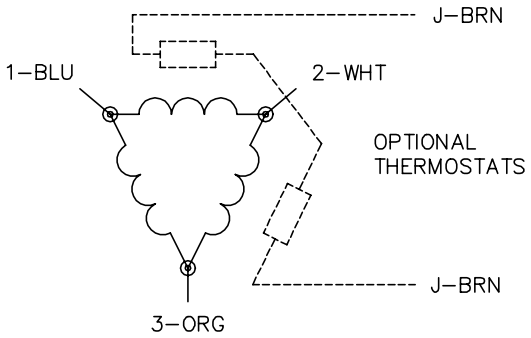
CD0006

TYPICAL WYE–CONNECTED MOTOR





TYPICAL DELTA–CONNECTED MOTOR



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: ENBRIR0
MTL: –		

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3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

SH 1 of 1