ABB BALDOR RELIANCE

Customer information packet

EM4103T-BG

25HP, 1775RPM, 3PH, 60HZ, 284T, 1054M, TEFC, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	284T
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	460.0 V @ 60 HZ
	230.0 V @ 60 HZ
Agency Approvals	CSA
	CSA EEV
	UR
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	62.000 A @ 230.0 V
	64.000 A @ 208.0 V
	31.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.6 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	R
Type	AC
Mech. spec.	10J470
Base	
Status	PRD/A
Elec. spec.	10WGZ651
Layout	10LYJ470
Eff. date	08-07-2026
CD Diagram	CD0180
Poles	04
Leads	9#10
Proprietary	False
Created date	10-19-2017

Heater Indicator	No Heater
High Voltage Full Load Amps	31.0 a
Insulation Class	H
Inverter Code	Inverter Ready
KVA Code	J
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	1054M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	27.76 IN
Power Factor	81
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1775 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	NONE (OLD)
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None

Winding Thermal 2	None

Nameplate

NP3443LUA											
CAT.NO.	EM4103T-BG			**CUST. P/N**						**ENCL**	TEFC
SPEC.	10J470Z651G1	**CC**	010A	**FRAME**	284T		**SER.NO.**				
HP	25	**CLASS**	H	**HZ**	60						
R.P.M.	1775	**PH.**	3	**DES.**	A						
VOLTS	230/460	**CODE**	J	**ODE BRG**	6309	**DE BRG**	6311				
AMPS	62/31										
RATING	40C AMB-CONT	**NEMA NOM. EFF.**	93.6	**GREASE**	POLYREX EM						
P.F.	81	**SER.F.**	1.15	**CT6-60H(10:1)VT3-60H(20:1**							
USABLE AT	50HZ 25HP 190/380V 72/36A			SF1.0							
VOLTS	**AMPS**	**MAX. SPACE HEATER TEMP.**									

AC Induction Motor Performance Data
Record # 67463
Typical performance - not guaranteed values

Winding: 10WGZ651-R005	**Type:** 1054M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			25	**Full Load Torque**	74.02 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			62/31	**Breakdown Torque**	262 LB-FT
R.P.M.			1775	**Pull-up Torque**	118 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	142 LB-FT
NEMA Design Code	A	**KVA Code**	J	**Starting Current**	223 A
Service Factor (S.F.)			1.15	**No-load Current**	13.6 A
NEMA Nom. Eff.	93.6	**Power Factor**	81	**Line-line Res. @ 25ºC**	0.2345 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	51°C
S.F. Amps				**Temp. Rise @ S.F. Load**	61°C
				Locked-rotor Power Factor	30.6

Load Characteristics 460 V, 60 Hz, 25 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	43	65	76	81	84	85	83
Efficiency	88.3	92.8	93.9	94	93.7	93.1	93.8
Speed	1794.1	1789.3	1783.5	1777.8	1770.8	1763.8	1774
Line amperes	15.3	19.3	24.6	30.6	37.2	44.5	34.6

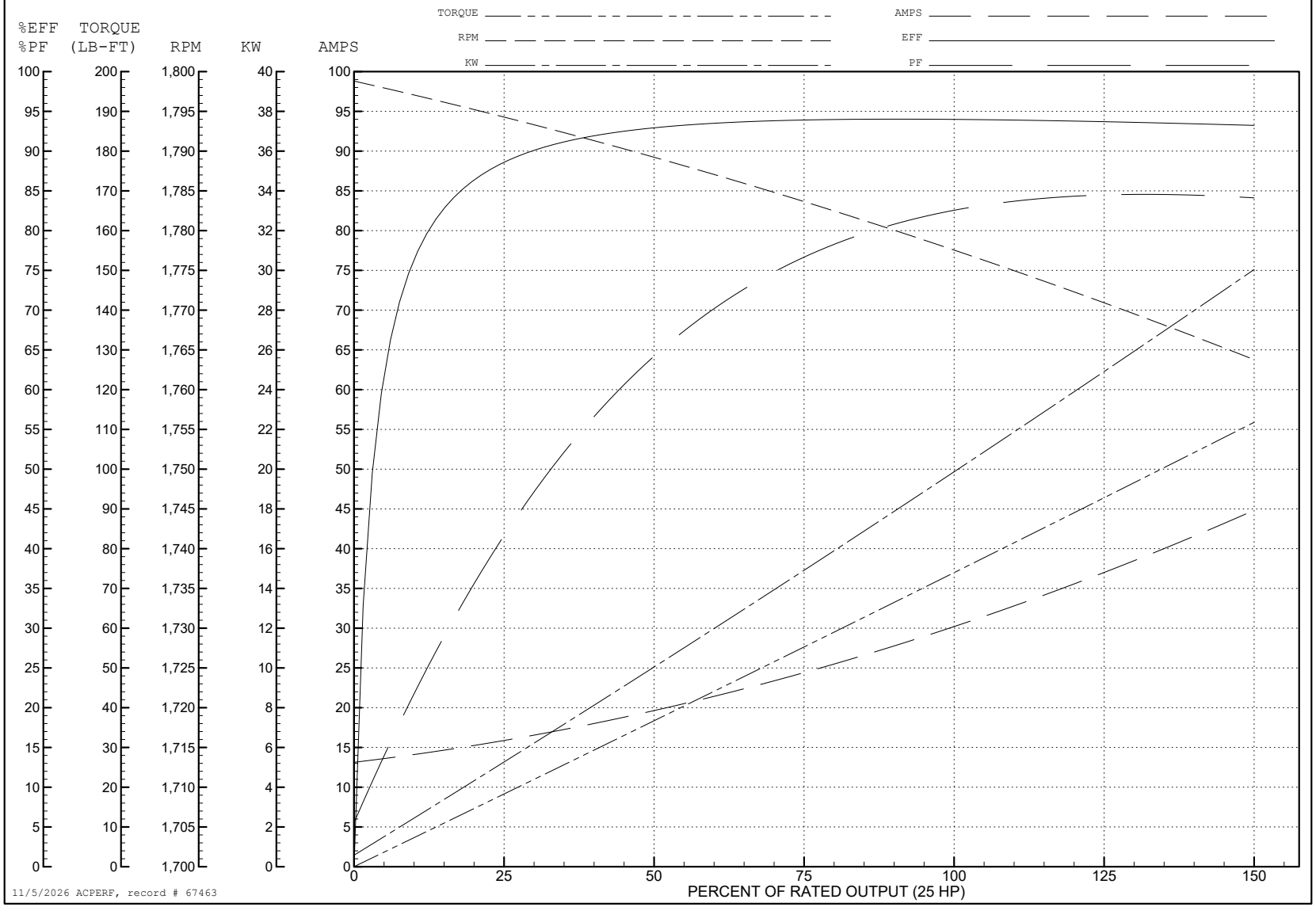
ABB Motors and Mechanical Inc.

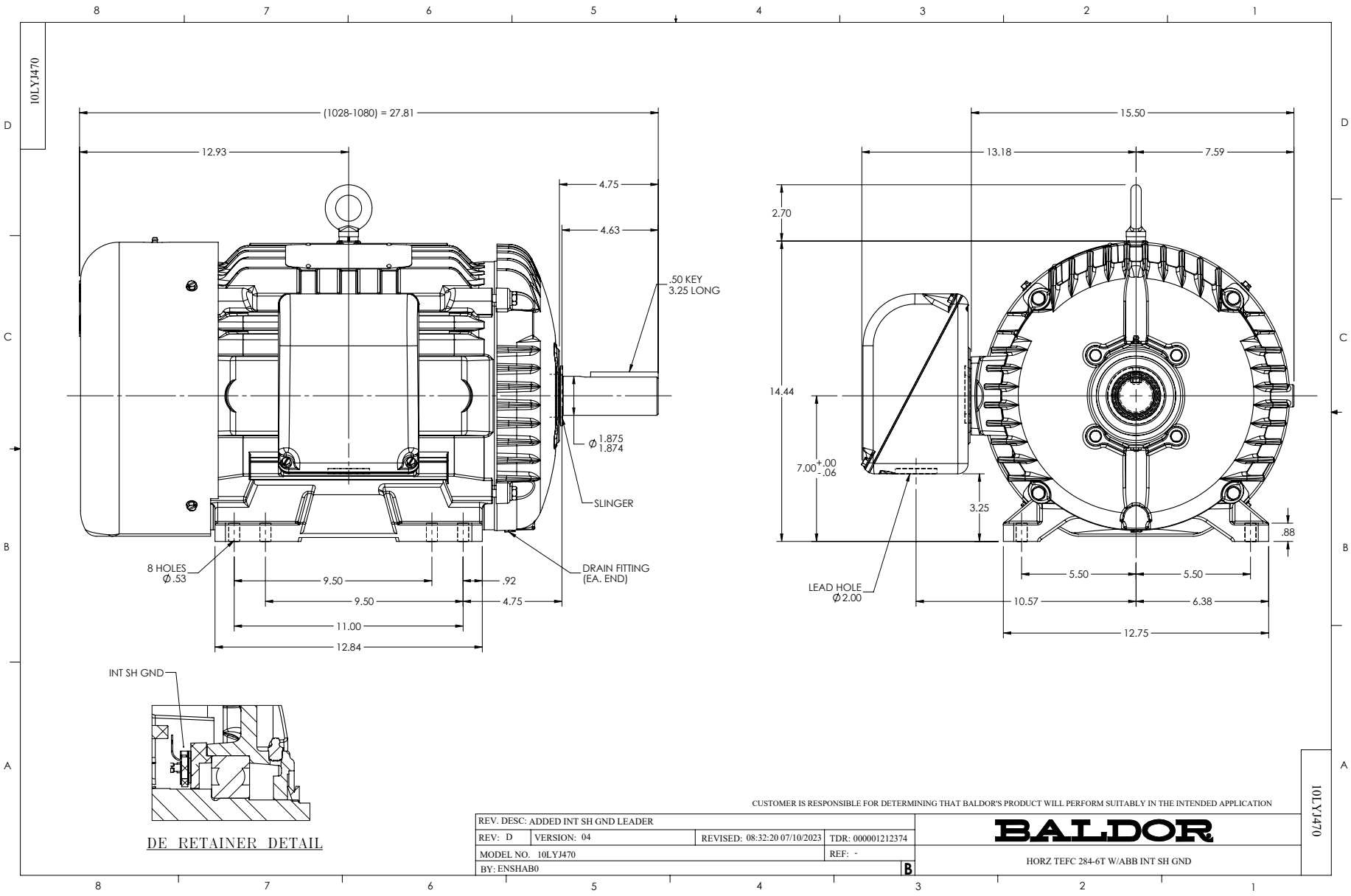
WINDING # 10WGZ651

25 HP 3 PH 60 HZ 1775 RPM 460 V 1054M

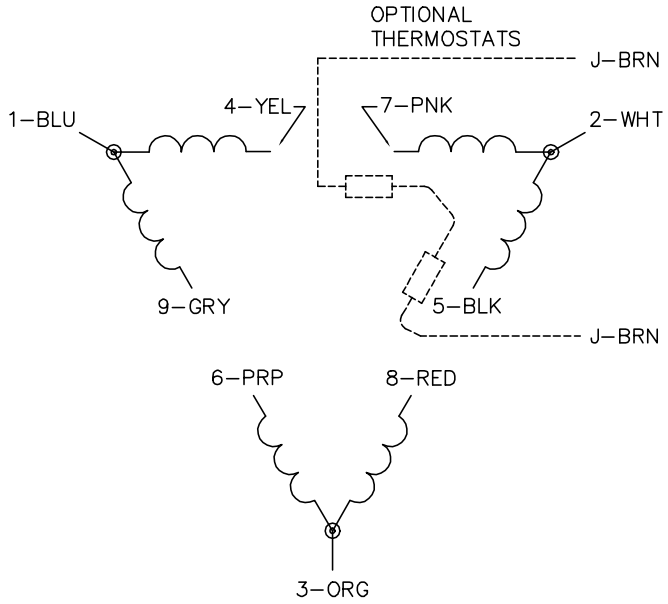
Typical performance - not guaranteed values.

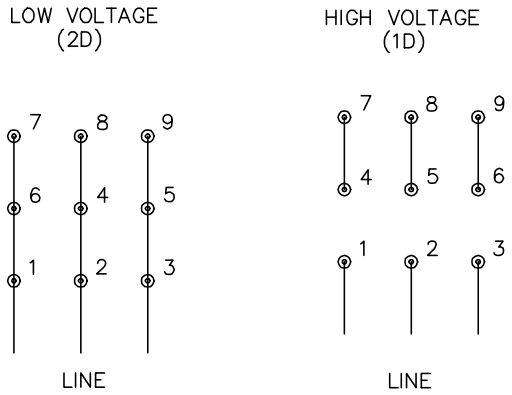
TORQUES(LB-FT): PO=262 PU=118 LR=142 LRA=223




10LYJ470
(1028-1080) = 27.81
12.93
4.75
4.63
.50 KEY
3.25 LONG
Ø 1.875
1.874
SLINGER
8 HOLES
Ø .53
9.50
.92
9.50
4.75
11.00
12.84
DRAIN FITTING
(EA. END)
15.50
13.18
7.59
2.70
14.44
7.00 +.00 -.06
3.25
.88
LEAD HOLE
Ø 2.00
5.50
5.50
10.57
6.38
12.75
INT SH GND
DE RETAINER DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: ADDED INT SH GND LEADER
REV: D
VERSION: 04
REVISED: 08:32:20 07/10/2023
TDR: 000001212374
MODEL NO. 10LYJ470
REF: -
BY: ENSHAB0
B
BALDOR
HORZ TEFC 284-6T W/ABB INT SH GND
10LYJ470

CD0180





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: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

3PH, DV, 9 LEADS, DELTA CONNECTION

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