ABB BALDOR RELIANCE

Customer information packet

AEM4100-4

15HP, 1180RPM, 3PH, 60HZ, 324U, 1248M, TEFC, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	324U
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	15.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	UR
	CSA
Ambient Temperature	65 °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	19.100 A @ 460.0 V
Design Code	B
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	19.1 a
Insulation Class	F
Inverter Code	Inverter Ready

Part Detail

Revision	J
Type	AC
Mech. spec.	12H79
Base	
Status	PRD/A
Elec. spec.	12WGY728
Layout	12LYH079
Eff. date	08-01-2023
CD Diagram	CD0006
Poles	06
Leads	3#12
Proprietary	False
Created date	02-21-2015

KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 12 AWG
Motor Lead Termination	Ring Terminals
Motor Standards	NEMA
Motor Type	1248M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	30.66 IN
Power Factor	79
Product Family	Automotive (Not For DC)
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.00
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	1180 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

Nameplate

NP1404									
CAT.NO.									
SPEC.	12H079Y728G1								
VOLTS	460								
AMP	19.1								
RPM	1180			**HP**	15				
FRAME	324U	**HZ**	60			**PH**	3		
SER.F.	1.00	**CODE**	G	**DES**	B	**CL**	F		
NEMA-NOM-EFF	91.7	**PF**	79						
G.MIN.EFF	90.2	**CC**	010A						
RATING	65C AMB-CONT								
LUBRICATION	POLYREX EM								
DE	6312	**ODE**	6311						
ENCL	TEFC	**SER. #**							

Accessories

Part number	Description	Multiplier
12-1105	C FACE KIT	A8

AC Induction Motor Performance Data
Record # 49351
Typical performance - not guaranteed values

Winding: 12WGY728-R004	**Type:** 1248M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			15	**Full Load Torque**	66.7 LB-FT
Volts			460	**Start Configuration**	direct on line
Full Load Amps			19.1	**Breakdown Torque**	181 LB-FT
R.P.M.			1180	**Pull-up Torque**	71 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	104 LB-FT
NEMA Design Code	B	**KVA Code**	G	**Starting Current**	116 A
Service Factor (S.F.)			1	**No-load Current**	7.94 A
NEMA Nom. Eff.	91.7	**Power Factor**	79	**Line-line Res. @ 25ºC**	0.576 Ω
Rating - Duty			65C AMB-CONT	**Temp. Rise @ Rated Load**	29°C
				Locked-rotor Power Factor	30
				Rotor inertia	9.17 LB-FT2

Load Characteristics 460 V, 60 Hz, 15 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	46	67	76	80	82	82
Efficiency	85.7	90.7	92.1	92.1	91.4	90.2
Speed	1195	1191	1187	1182	1178	1171
Line amperes	9.07	11.6	15.1	19.1	23.5	29.5

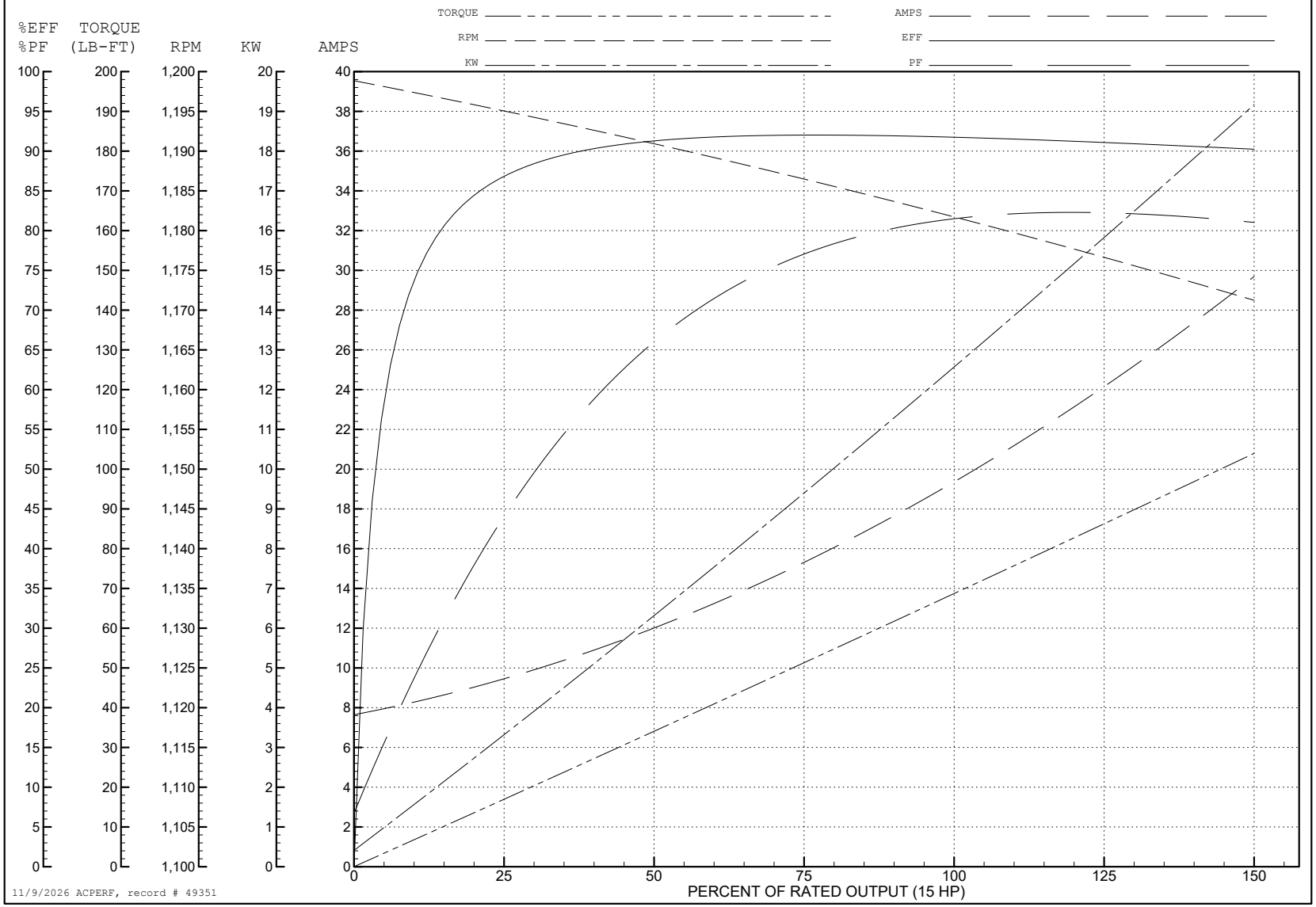
ABB Motors and Mechanical Inc.

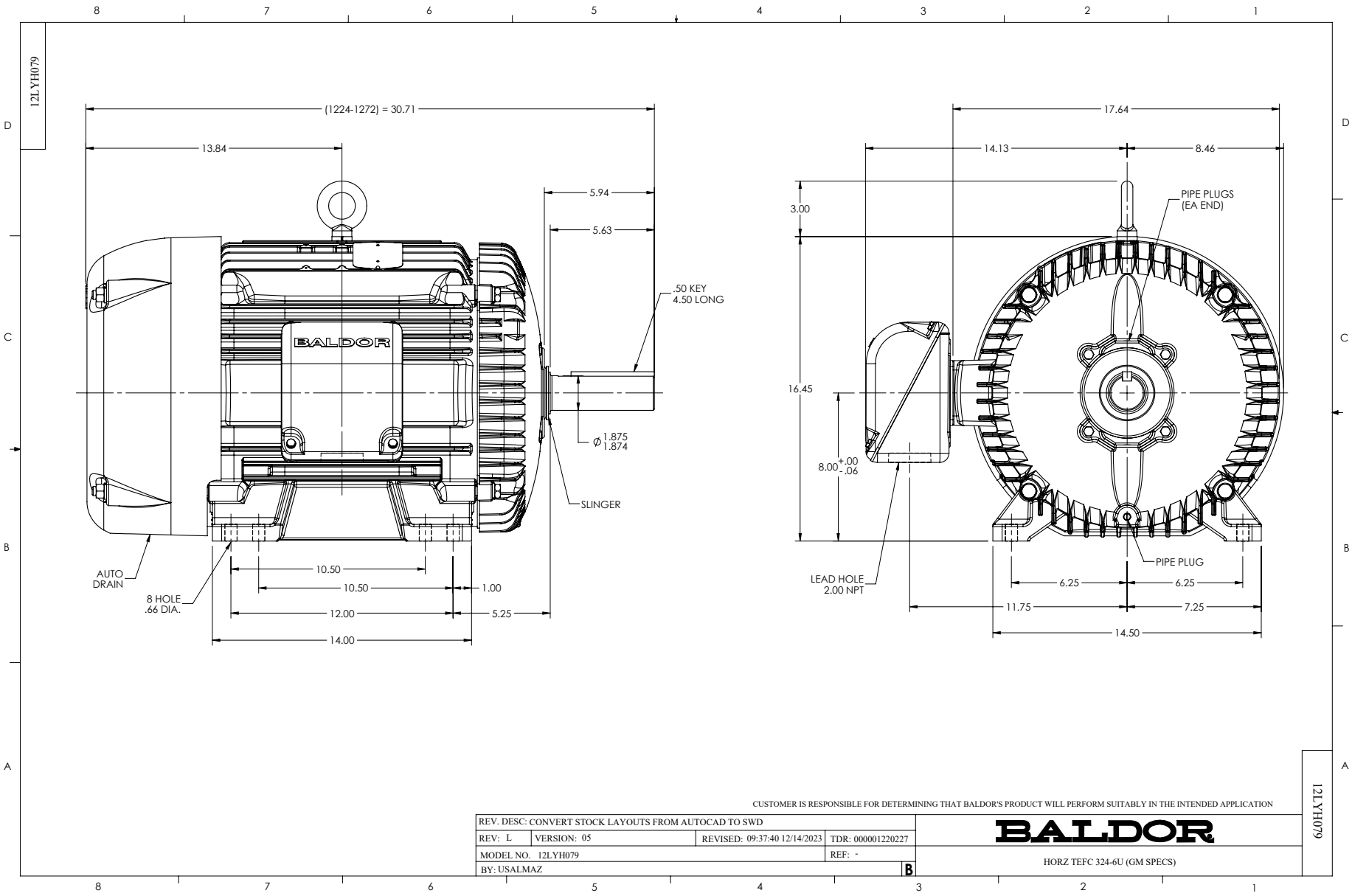
WINDING # 12WGY728

15 HP 3 PH 60 HZ 1180 RPM 460 V 1248M

Typical performance - not guaranteed values.

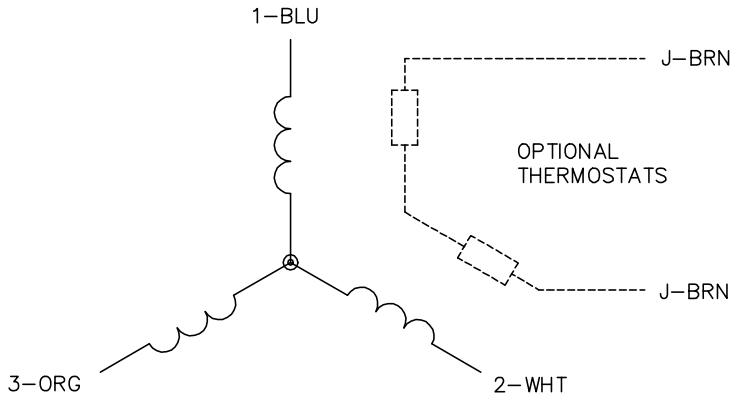
TORQUES(LB-FT): PO=181 PU=71 LR=104 LRA=116

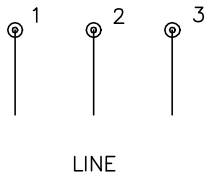



12LYH079
(1224-1272) = 30.71
13.84
5.94
5.63
.50 KEY
4.50 LONG
BALDOR
Ø 1.875
1.874
SLINGER
AUTO
DRAIN
8 HOLE
.66 DIA.
10.50
10.50
1.00
12.00
5.25
14.00
17.64
14.13
8.46
PIPE PLUGS
(EA END)
3.00
16.45
8.00 +.00 -.06
LEAD HOLE
2.00 NPT
PIPE PLUG
6.25
6.25
11.75
7.25
14.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT STOCK LAYOUTS FROM AUTOCAD TO SWD
REV: L
VERSION: 05
REVISED: 09:37:40 12/14/2023
TDR: 000001220227
MODEL NO. 12LYH079
REF: -
BY: USALMAZ
B
BALDOR
HORZ TEFC 324-6U (GM SPECS)
12LYH079

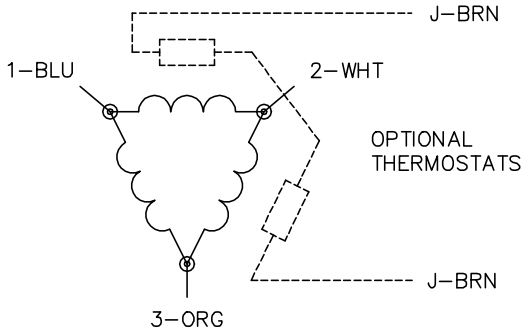
CD0006

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			BALDOR - RELIANCE®
REV. LTR: E	VERSION: 01	TDR: 000001099922	
FILE: \AAA\00005\141	REVISED: 10:24:49 02/19/2019	BY: ENBRIR0	3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED
MTL: –			SH 1 of 1