ABB BALDOR RELIANCE

Customer information packet

AEM2334-4

20HP, 1770RPM, 3PH, 60HZ, 286U, 1046M, TEFC, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	286U
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	20.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 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	23.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.0 %
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	23.0 a
Insulation Class	F
Inverter Code	Inverter Ready

Part Detail

Revision	L
Type	AC
Mech. spec.	10M36
Base	
Status	PRD/A
Elec. spec.	10WGY977
Layout	10LYM036
Eff. date	07-19-2023
CD Diagram	CD0006
Poles	04
Leads	3#10
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 @ 10 AWG
Motor Lead Termination	Ring Terminals
Motor Standards	NEMA
Motor Type	1046M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	27.81 IN
Power Factor	84
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	1.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1770 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

NP1404								
CAT.NO.	AEM2334-4							
SPEC.	10M036Y977G1							
VOLTS	460							
AMP	23							
RPM	1770		**HP**	20				
FRAME	286U	**HZ**	60		**PH**	3		
SER.F.	1.00	**CODE**	G	**DES**	B	**CL**	F	
NEMA-NOM-EFF	93	**PF**	84					
G.MIN.EFF	91.7	**CC**	010A					
RATING	65C AMB-CONT							
LUBRICATION	POLYREX EM							
DE	6311	**ODE**	6309					
ENCL	TEFC	**SER. #**						

Accessories

Part number	Description	Multiplier
10-1305	C FACE KIT	A8
10EP1502A01SP	D-FLANGE KIT	A8

AC Induction Motor Performance Data
Record # 49354
Typical performance - not guaranteed values

Winding: 10WGY977-R014	**Type:** 1046M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			20	**Full Load Torque**	59.3 LB-FT
Volts			460	**Start Configuration**	direct on line
Full Load Amps			23	**Breakdown Torque**	189 LB-FT
R.P.M.			1770	**Pull-up Torque**	76.6 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	95.9 LB-FT
NEMA Design Code	B	**KVA Code**	G	**Starting Current**	145 A
Service Factor (S.F.)			1	**No-load Current**	7.85 A
NEMA Nom. Eff.	93	**Power Factor**	84	**Line-line Res. @ 25ºC**	0.368 Ω
Rating - Duty			65C AMB-CONT	**Temp. Rise @ Rated Load**	40°C
				Locked-rotor Power Factor	31.8
				Rotor inertia	3.66 LB-FT2

Load Characteristics 460 V, 60 Hz, 20 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	57	78	85	87	88	87
Efficiency	88.4	92.3	93.5	93.5	93.3	92.6
Speed	1793	1785	1779	1771	1763	1755
Line amperes	9.5	13.1	17.7	22.9	28.4	34.6

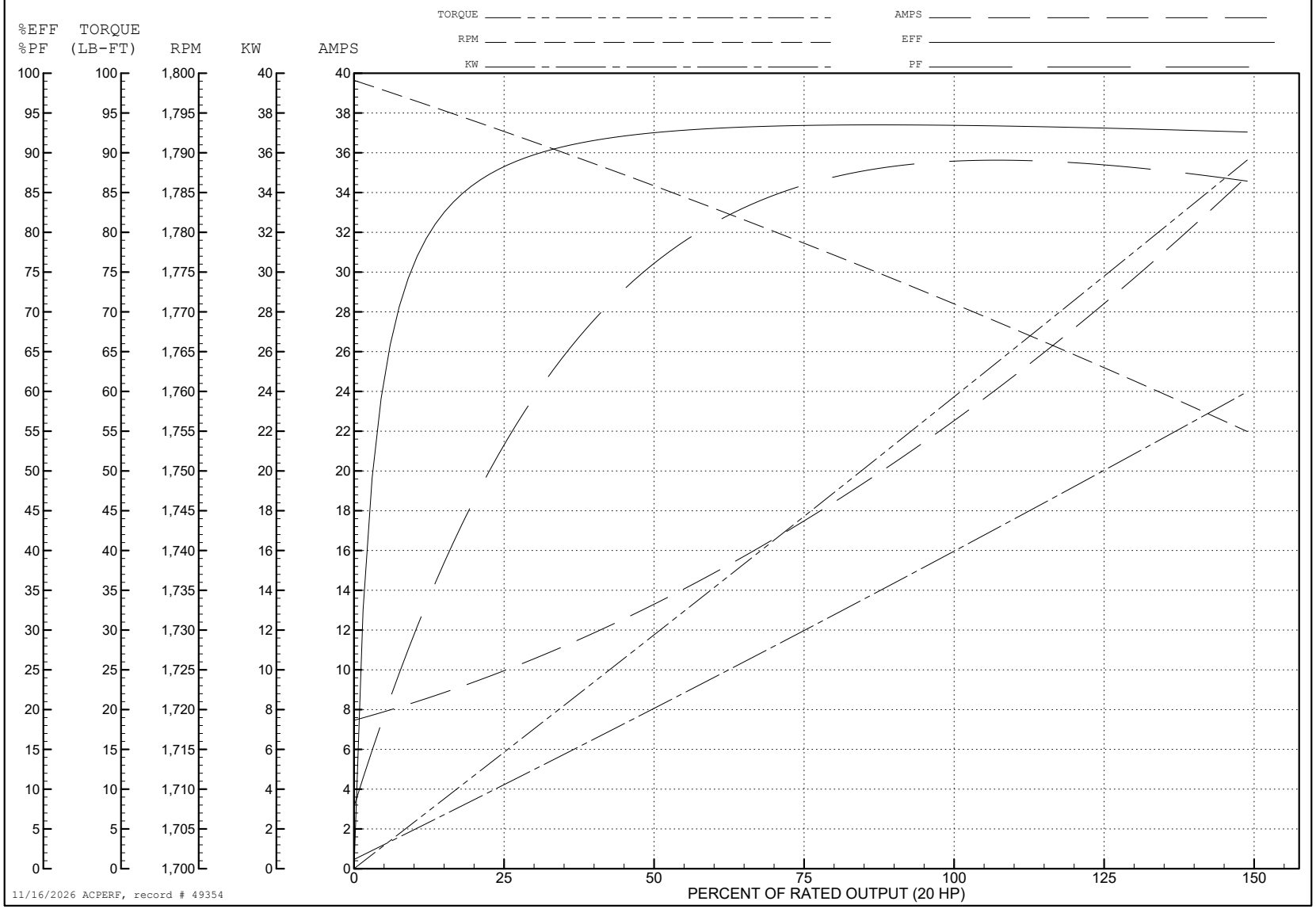
ABB Motors and Mechanical Inc.

WINDING # 10WGY977

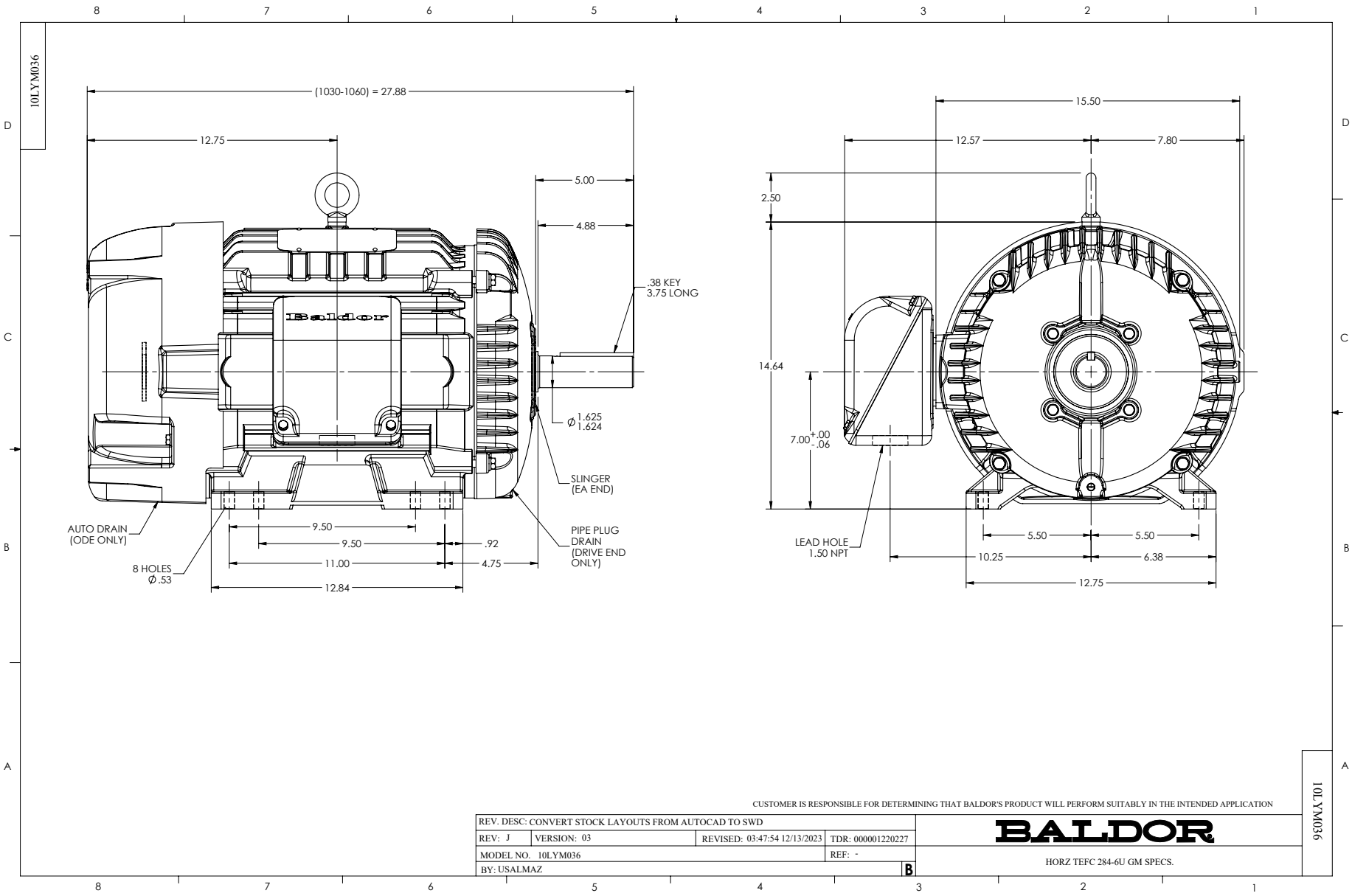
20 HP 3 PH 60 HZ 1770 RPM 460 V 1046M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=189 PU=76.6 LR=95.9 LRA=145

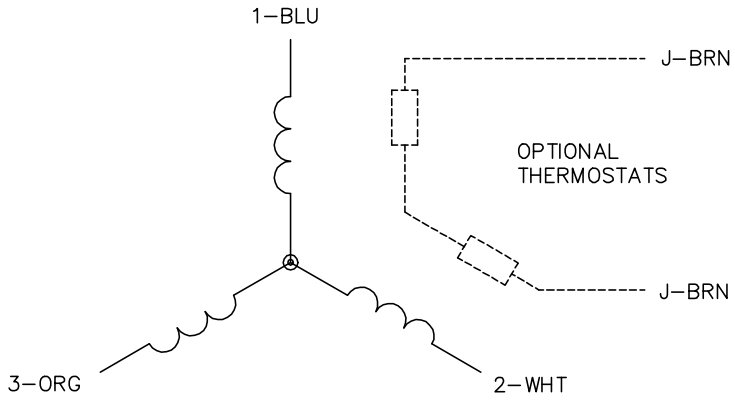


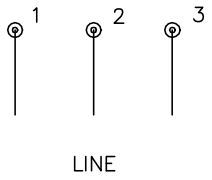
11/16/2026 ACPERF, record # 49354


10LYM036
(1030-1060) = 27.88
12.75
5.00
4.88
.38 KEY
3.75 LONG
Ø 1.625
1.624
SLINGER
(EA END)
AUTO DRAIN
(ODE ONLY)
9.50
9.50
.92
11.00
4.75
12.84
8 HOLES
Ø .53
PIPE PLUG
DRAIN
(DRIVE END
ONLY)
15.50
12.57
7.80
2.50
14.64
7.00 +.00 -.06
LEAD HOLE
1.50 NPT
5.50
5.50
10.25
6.38
12.75
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: J
VERSION: 03
REVISED: 03:47:54 12/13/2023
TDR: 000001220227
MODEL NO. 10LYM036
REF: -
BY: USALMAZ
B
BALDOR
HORZ TEFC 284-6U GM SPECS.
10LYM036

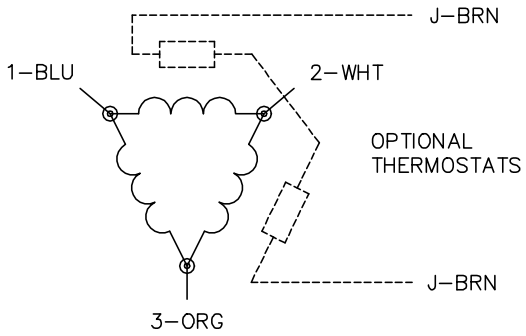
CD0006

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