ABB BALDOR RELIANCE

Customer information packet

EM4111T

25HP, 1180RPM, 3PH, 60HZ, 324T, 1072M, TEFC, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	324T
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	1200 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	230.0 V @ 60 HZ
Agency Approvals	CURUSEEV
	NEMA PREMIUM
	NEMA PREMIUM (OLD LOGO)
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	64.000 A @ 230.0 V
	70.000 A @ 208.0 V
	32.000 A @ 460.0 V
Design Code	A
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

Part Detail

Revision	X
Type	AC
Mech. spec.	10G860
Base	
Status	PRD/A
Elec. spec.	10WGX979
Layout	10LYG860
Eff. date	06-27-2024
CD Diagram	CD0180
Poles	06
Leads	9#10
Proprietary	False
Created date	06-12-2009

Heater Indicator	No Heater
High Voltage Full Load Amps	32.0 a
Insulation Class	F
Inverter Code	Inverter Ready
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	1072M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	30.44 IN
Power Factor	79
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	2.125 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

NP3443LUA											
CAT.NO.	EM4111T			**CUST. P/N**						**ENCL**	TEFC
SPEC.	10G860X979	**CC**	010A	**FRAME**	324T		**SER.NO.**				
HP	25		**CLASS**	F	**HZ**	60					
R.P.M.	1180		**PH.**	3	**DES.**	A					
VOLTS	230/460			**CODE**	H		**ODE BRG**	6309	**DE BRG**	6312	
AMPS	64/32										
RATING	40C AMB-CONT			**NEMA NOM. EFF.**	93		**GREASE**	POLYREX EM			
P.F.	79	**SER.F.**	1.15	**CT6-60H(10:1)VT3-60H(20:1**							
USABLE AT	50Hz 25HP 190/380V 76/38A			SF1.0							
VOLTS	**AMPS**		**MAX. SPACE HEATER TEMP.**								

Accessories

Part number	Description	Multiplier
10-1304	C FACE KIT	A8

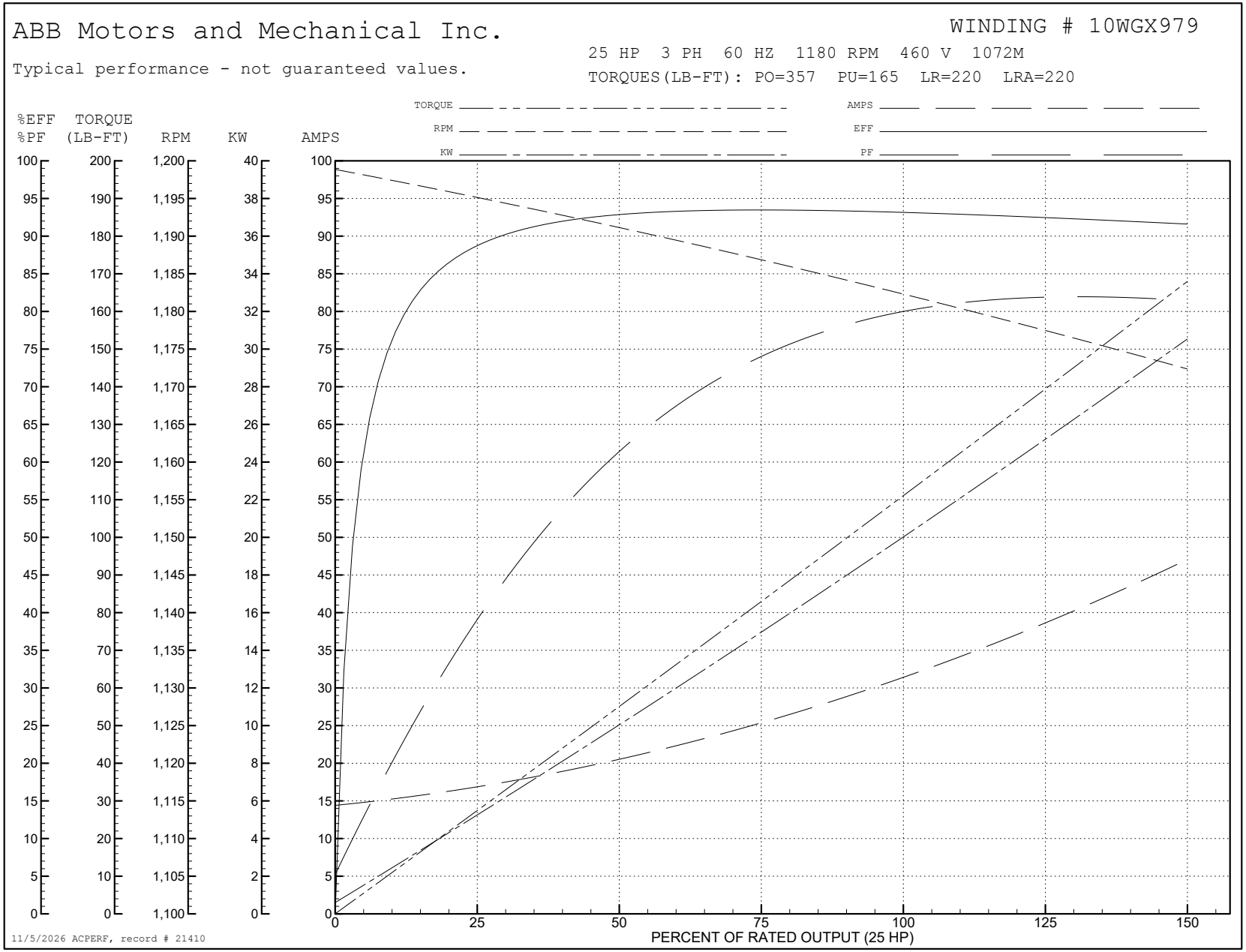
AC Induction Motor Performance Data
Record # 21410
Typical performance - not guaranteed values

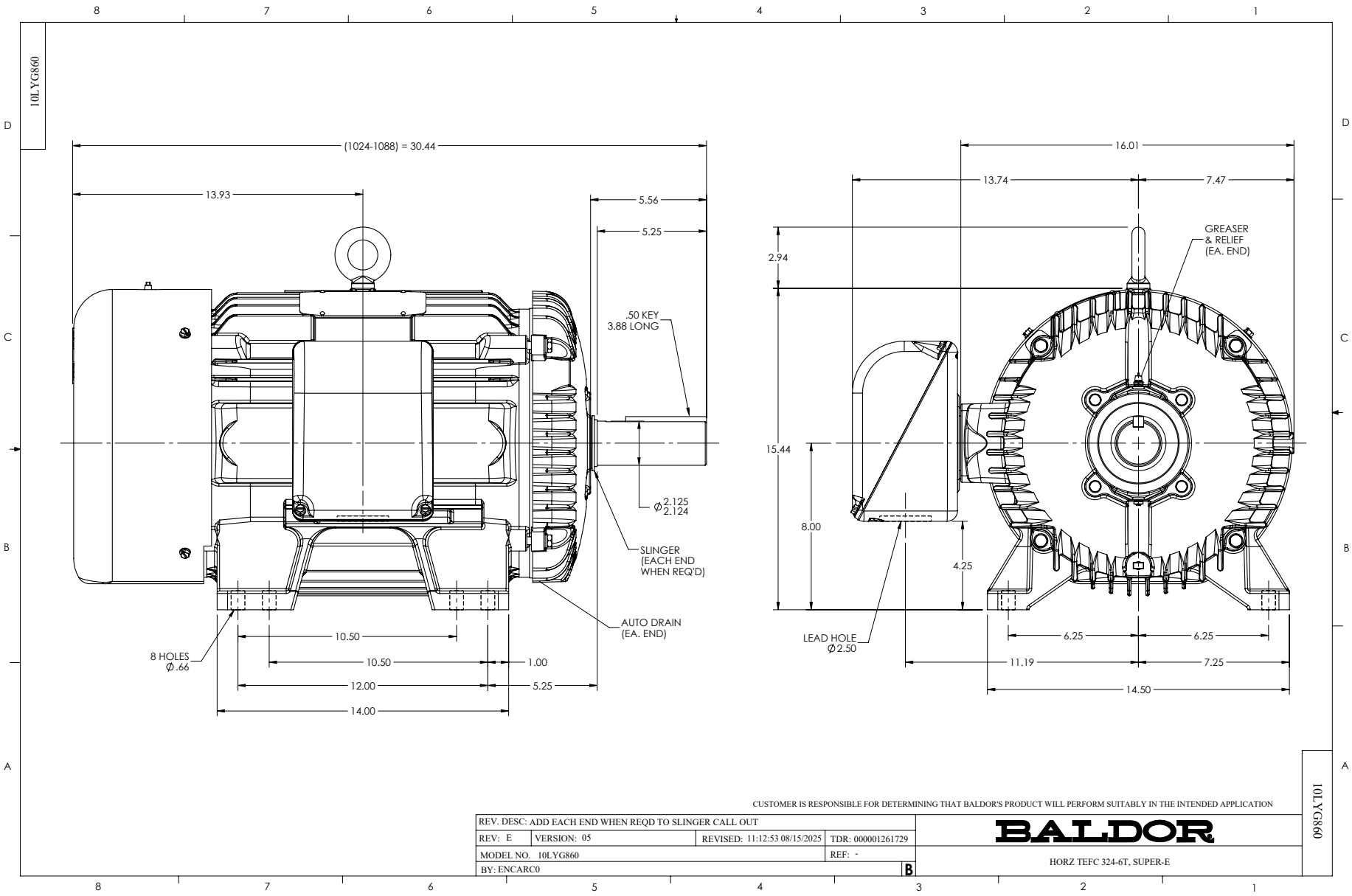
Winding: 10WGX979-R001	**Type:** 1072M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			25	**Full Load Torque**	112 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			64/32	**Breakdown Torque**	357 LB-FT
R.P.M.			1180	**Pull-up Torque**	165 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	220 LB-FT
NEMA Design Code	A	**KVA Code**	H	**Starting Current**	220 A
Service Factor (S.F.)			1.15	**No-load Current**	14.9 A
NEMA Nom. Eff.	93	**Power Factor**	79	**Line-line Res. @ 25ºC**	0.279 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	50°C
S.F. Amps				**Temp. Rise @ S.F. Load**	62°C
				Locked-rotor Power Factor	30
				Rotor inertia	8.82 LB-FT2

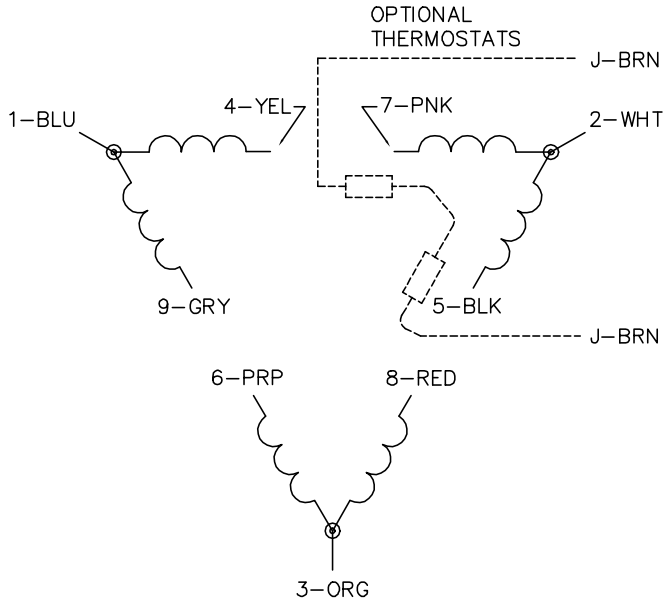
Load Characteristics 460 V, 60 Hz, 25 HP

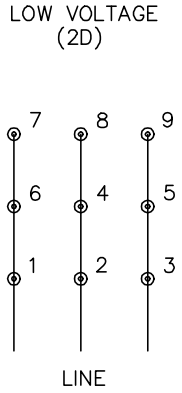
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	42	63	73	79	81	82	80
Efficiency	89	92.6	93.3	93	92.5	91.5	92.7
Speed	1195	1191	1187	1182	1178	1172	1180
Line amperes	16.3	20.1	25.4	32	39.1	46.7	36.3

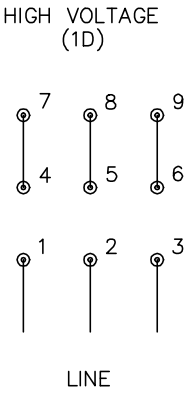

ABB Motors and Mechanical Inc.
WINDING # 10WGX979
25 HP 3 PH 60 HZ 1180 RPM 460 V 1072M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=357 PU=165 LR=220 LRA=220
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (25 HP)
11/5/2026 ACPERF, record # 21410


10LYG860
(1024-1088) = 30.44
13.93
5.56
5.25
.50 KEY
3.88 LONG
Ø2.125
2.124
SLINGER
(EACH END
WHEN REQ'D)
AUTO DRAIN
(EA. END)
8 HOLES
Ø.66
10.50
10.50
1.00
12.00
5.25
14.00
16.01
13.74
7.47
GREASER
& RELIEF
(EA. END)
2.94
15.44
8.00
4.25
LEAD HOLE
Ø2.50
6.25
6.25
11.19
7.25
14.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: ADD EACH END WHEN REQD TO SLINGER CALL OUT
REV: E
VERSION: 05
REVISED: 11:12:53 08/15/2025
TDR: 000001261729
MODEL NO. 10LYG860
REF: -
BY: ENCARC0
B
BALDOR
HORZ TEFC 324-6T, SUPER-E
10LYG860

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

SH 1 of 1