

ABB BALDOR RELIANCE III

Customer information packet

CEL11310

1HP, 1750RPM, 1PH, 60HZ, 56C, 3528LC, OPEN, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	OPEN
Frame	56C
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Cap Start, Cap Run
Output @ Frequency	1.000 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	115.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	CURUSEEV
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	4.400 A @ 230.0 V 8.800 A @ 115.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	82.6 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	4.4 a
Insulation Class	F
Inverter Code	Not Inverter

Part Detail

Revision	C
Type	AC
Mech. spec.	35E021
Base	
Status	PRD/A
Elec. spec.	35WGG109
Layout	35LYE021
Eff. date	07-02-2024
CD Diagram	CD0055
Poles	04
Leads	6#18
Proprietary	False
Created date	08-01-2022

KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	6 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3528LC
Mounting Arrangement	F1
Number of Poles	4
Overall Length	12.06 IN
Power Factor	89
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1750 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

NP3155L									
CAT.NO.	CEL11310								
SPEC.	35E021G109								
HP	1								
VOLTS	115/230								
AMP	8.8/4.4								
RPM	1750								
FRAME	56C		HZ	60			PH	1	
SER.F.	1.15	CODE	K	DES	L	CL	F		
F.L. AVG. EFF.	82.6	PF	89						
RATING	40C AMB-CONT								
CC									
DE	6205		ODE	6203					
ENCL	OPEN	SN							

AC Induction Motor Performance Data

Record # 108226

Typical performance - not guaranteed values

Winding: 35WGG109-R001			Type: 3528LC		Enclosure: OPEN			
Nameplate Data			115 V, 60 Hz: Low Voltage Connection					
Rated Output (HP)		1	Full Load Torque		3.006 LB-FT			
Volts		115/230	Start Configuration		direct on line			
Full Load Amps		8.8/4.4	Breakdown Torque		9.12 LB-FT			
R.P.M.		1750	Pull-up Torque		6.8 LB-FT			
Hz		60	Phase		1	Locked-rotor Torque	13.7 LB-FT	
NEMA Design Code		L	KVA Code		K	Starting Current		75.2 A
Service Factor (S.F.)		1.15	No-load Current		4.53 A			
NEMA Nom. Eff.		82.6	Power Factor		89	Line-line Res. @ 25°C		0.57842 Ω A Ph 1.1449 Ω B Ph
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		22°C	
S.F. Amps			Temp. Rise @ S.F. Load		27°C			

Load Characteristics 115 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	51	69	80	86	89	91	88
Efficiency	65.7	78.3	82.3	82.7	81.4	78.7	81.9
Speed	1783.2	1769.4	1753.1	1736.2	1716	1689.1	1724
Line amperes	4.86	5.88	7.33	9.06	11.1	13.6	10.3

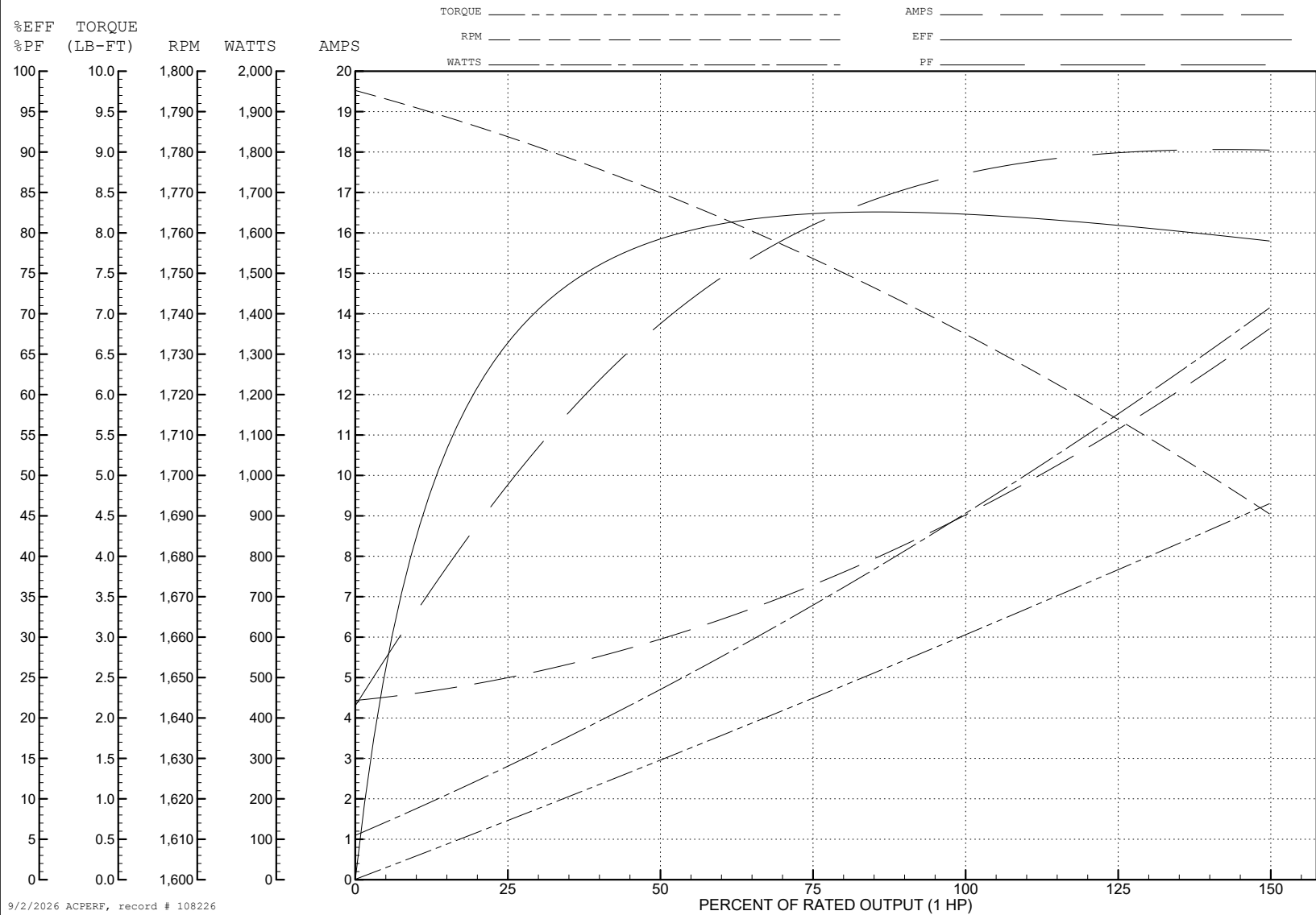
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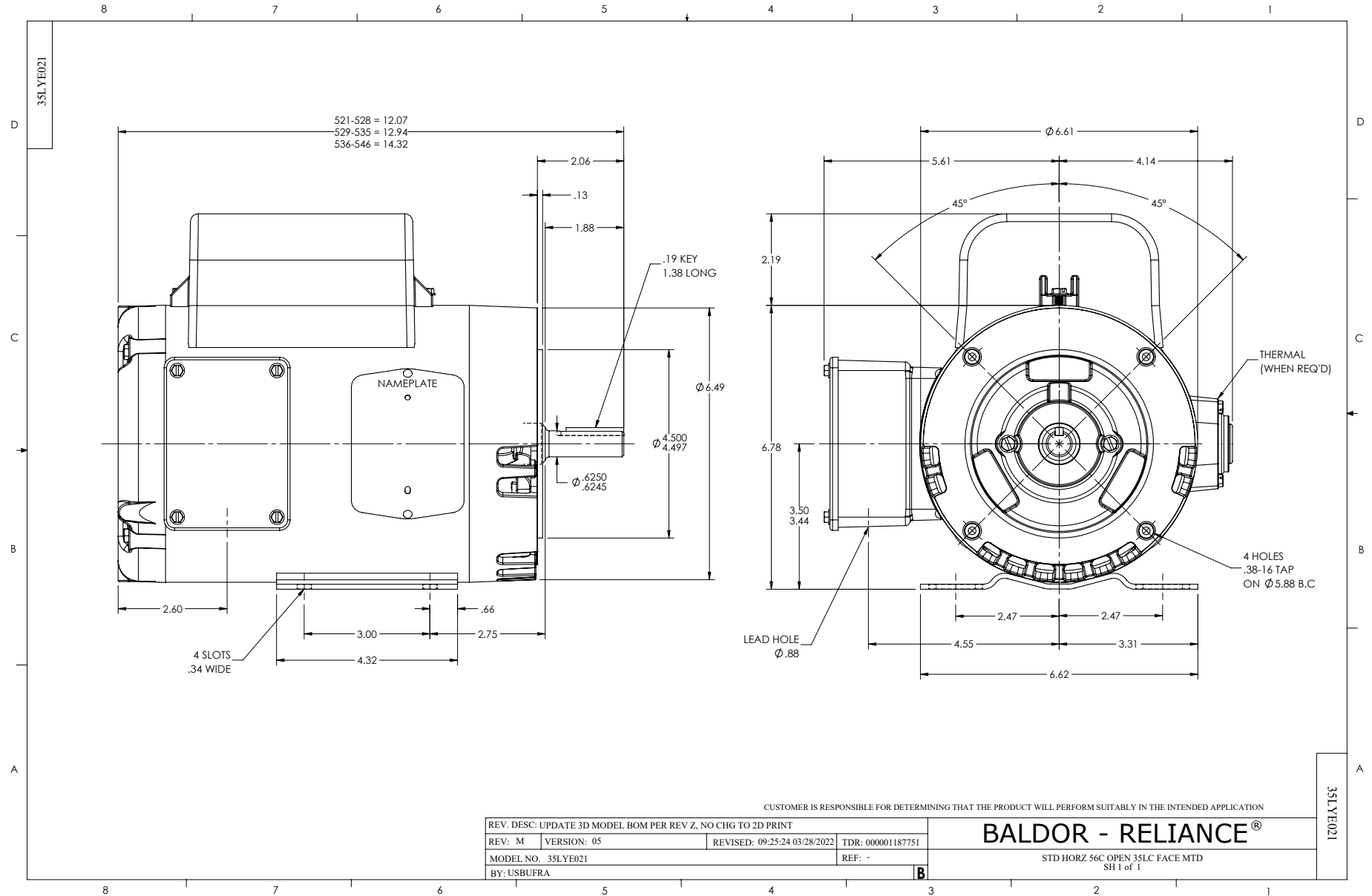
WINDING # 35WGG109

Typical performance - not guaranteed values.

1 HP 1 PH 60 HZ 1750 RPM 115 V 3528LC

TORQUES (LB-FT): PO=9.12 PU=6.8 LR=13.7 LRA=75.2





CD0055

