

ABB BALDOR RELIANCE III

Customer information packet

L3510TM

1HP, 1740RPM, 1PH, 60HZ, 143T, 3528L, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	143T
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Cap Start, Induction 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	C UR US
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	13.000 A @ 115.0 V 6.500 A @ 230.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	70.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	6.5 a
Insulation Class	F
Inverter Code	Not Inverter

Part Detail

Revision	A
Type	AC
Mech. spec.	35KK190
Base	
Status	PRD/A
Elec. spec.	35WGG468
Layout	35LYKK190
Eff. date	05-30-2025
CD Diagram	CD0269
Poles	04
Leads	4#16 A&J,2#18 B PH,1#14 #4TH
Proprietary	False
Created date	11-14-2024

KVA Code	M
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	4 @ 16 AWG, A&J
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3528L
Mounting Arrangement	F1
Number of Poles	4
Overall Length	13.29 IN
Power Factor	71
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1740 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	Manual Thermal Overload
Winding Thermal 1 Location	SB
Winding Thermal 2	None

Nameplate

NP1257L											
CAT.NO.	L3510TM										
SPEC.	35KK190G468										
HP	1										
VOLTS	115/230										
AMP	13/6.5										
RPM	1740										
FRAME	143T			HZ		60		PH		1	
SER.F.	1.15	CODE	M	DES	L	CL	F				
NEMA-NOM-EFF	70	PF	71								
RATING	40C AMB-CONT										
CC											
DE	6205		ODE		6203						
ENCL	TEFC	SN									

Accessories

Part number	Description	Multiplier
35-8762	C FACE KIT	A8
35EP1506A01SP	D-FLANGE KIT	A8

AC Induction Motor Performance Data

Record # 107878

Typical performance - not guaranteed values

Winding: 35WGG468-R001			Type: 3528L		Enclosure: TEFC		
Nameplate Data			230 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		1	Full Load Torque		3.013 LB-FT		
Volts		115/230	Start Configuration		direct on line		
Full Load Amps		12.5/6.3	Breakdown Torque		10.5 LB-FT		
R.P.M.		1750	Pull-up Torque		8.29 LB-FT		
Hz	60 Phase	1	Locked-rotor Torque		11.7 LB-FT		
NEMA Design Code		L	KVA Code		J	Starting Current	45.1 A
Service Factor (S.F.)		1.15	No-load Current		4.78 A		
NEMA Nom. Eff.		74	Power Factor		69	Line-line Res. @ 25°C	2.1417 Ω A Ph 1.1287 Ω B Ph
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		81°C		
S.F. Amps			Temp. Rise @ S.F. Load		95°C		

Load Characteristics 230 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	34	49	61	71	77	82	75
Efficiency	48.6	63.1	68.9	70.7	70.1	68.1	70.3
Speed	1783	1770.6	1756.7	1740.8	1721.6	1698.7	1729
Line amperes	4.88	5.21	5.76	6.5	7.48	8.73	7.09

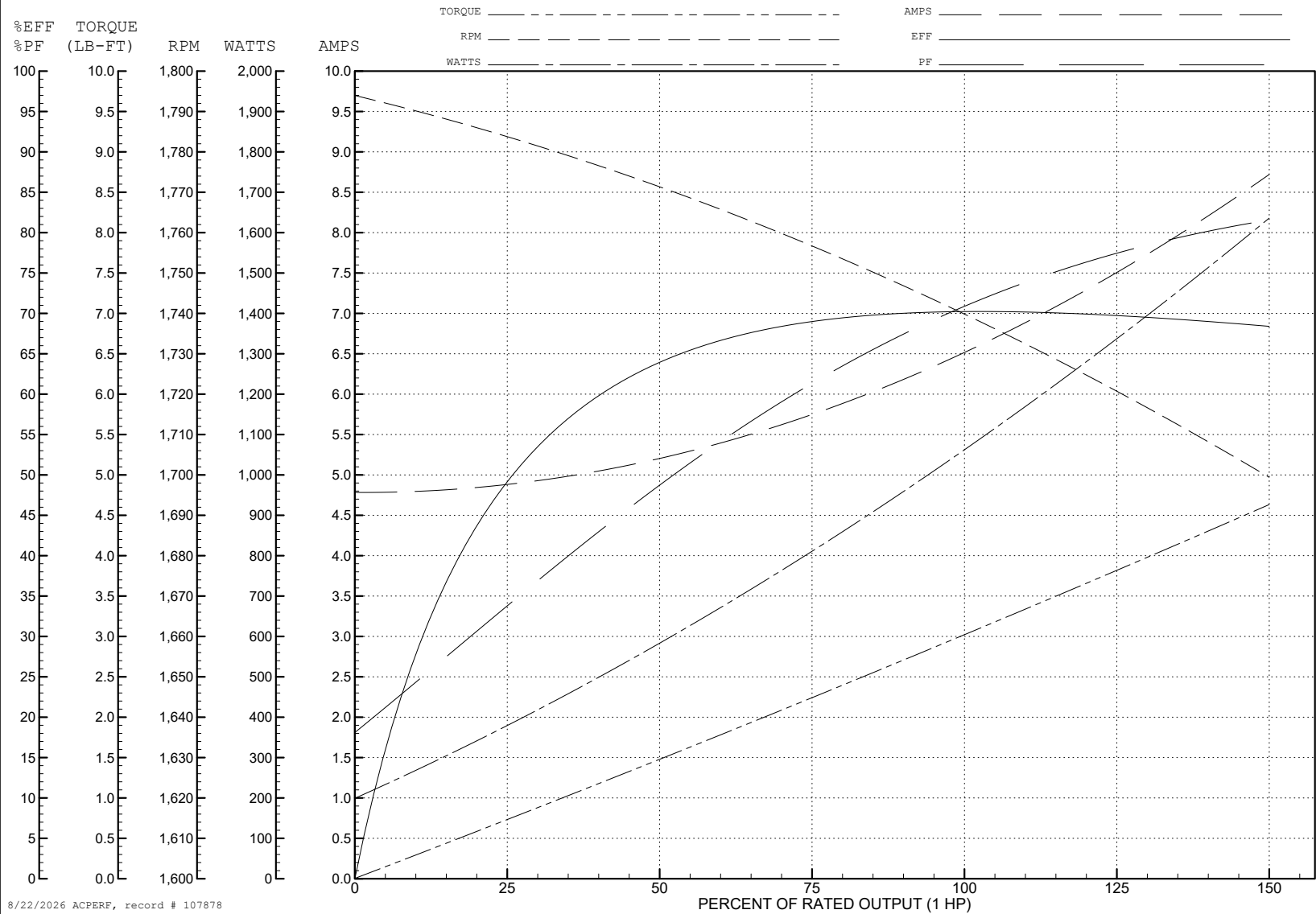
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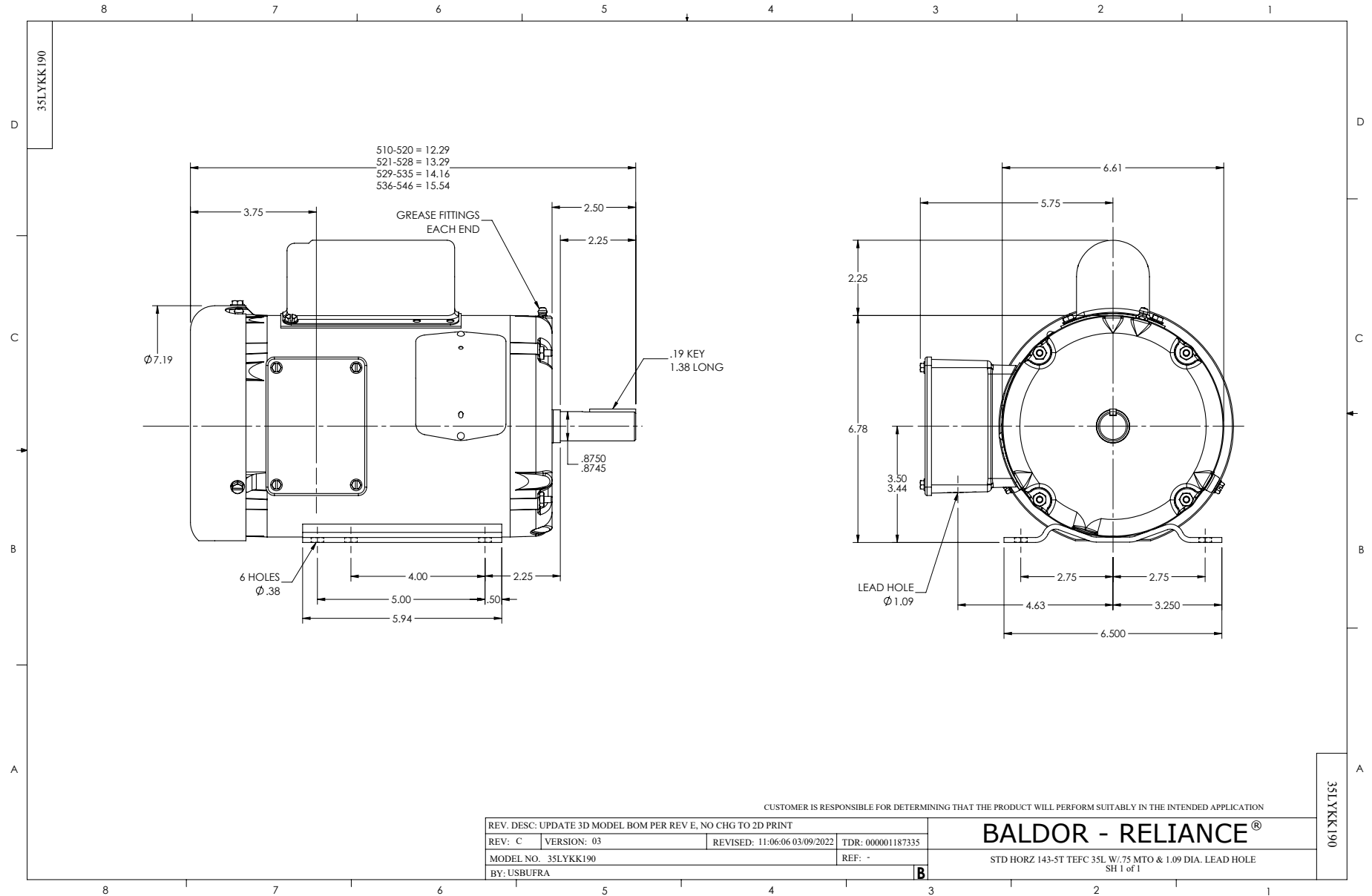
WINDING # 35WGG468

Typical performance - not guaranteed values.

1 HP 1 PH 60 HZ 1750 RPM 230 V 3528L

TORQUES (LB-FT): PO=10.5 PU=8.29 LR=11.7 LRA=45.1





CD0269

