

ABB BALDOR RELIANCE III

Customer information packet

CL5031T

2HP, 3450RPM, 1PH, 60HZ, 143TC, X3535L, XPFC

Class - CLI GP D; CLII GP F,G

Division - Division I

Specifications

Enclosure	XPFC
Frame	143TC
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP D; CLII GP F,G
Haz Area Division	Division I
Motor Letter Type	Cap Start, Induction Run
Output @ Frequency	2.000 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 208.0 V @ 60 HZ 115.0 V @ 60 HZ
Agency Approvals	CSA UL
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	23.000 A @ 115.0 V 12.000 A @ 208.0 V 11.500 A @ 230.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	74.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	BE
Type	AC
Mech. spec.	35L966
Base	
Status	PRD/A
Elec. spec.	35WG0506
Layout	35LYL966
Eff. date	01-13-2026
CD Diagram	CD0001
Poles	02
Leads	4#14 A PH,2#18 B PH
Proprietary	False
Created date	06-27-2007

Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	11.5 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	4 @ 14 AWG, A PH
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3535L
Mounting Arrangement	F1
Number of Poles	2
Overall Length	16.10 IN
Power Factor	82
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.00
Shaft Diameter	0.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3450 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat

Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP1426XPSL									
NO.		CC							
SER.									
SPEC.	35L966-506								
CAT.NO.	CL5031T								
HP	2		T. CODE	T3C					
VOLTS	115/208-230								
AMPS	23/12-11.5								
RPM	3450								
HZ	60		PH	1		CL	B		
SER.F.	1.00		DES	L		CODE		K	
RATING	40C AMB-CONT								
FRAME	143TC		NEMA-NOM-EFF						74
		PF	82						
BLANK									

AC Induction Motor Performance Data

Record # 20313

Typical performance - not guaranteed values

Winding: 35WG0506-R005			Type: 3535L		Enclosure: XPFC	
Nameplate Data			230 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		2	Full Load Torque		3 LB-FT	
Volts		115/208-230	Start Configuration		direct on line	
Full Load Amps		23/12-11.5	Breakdown Torque		9 LB-FT	
R.P.M.		3450	Pull-up Torque		6 LB-FT	
Hz	60 Phase	1	Locked-rotor Torque		7.5 LB-FT	
NEMA Design Code		L KVA Code	Starting Current		78 A	
Service Factor (S.F.)		1	No-load Current		6 A	
NEMA Nom. Eff.		74 Power Factor	Line-line Res. @ 25°C		0.864 Ω A Ph 1.26 Ω B Ph	
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		78°C	

Load Characteristics 230 V, 60 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	50	65	75	81	85	87
Efficiency	49.1	64.2	70.5	73.4	74.3	74.1
Speed	3569	3548	3524	3499	3471	3438
Line amperes	6.65	7.75	9.2	10.9	12.9	15.1

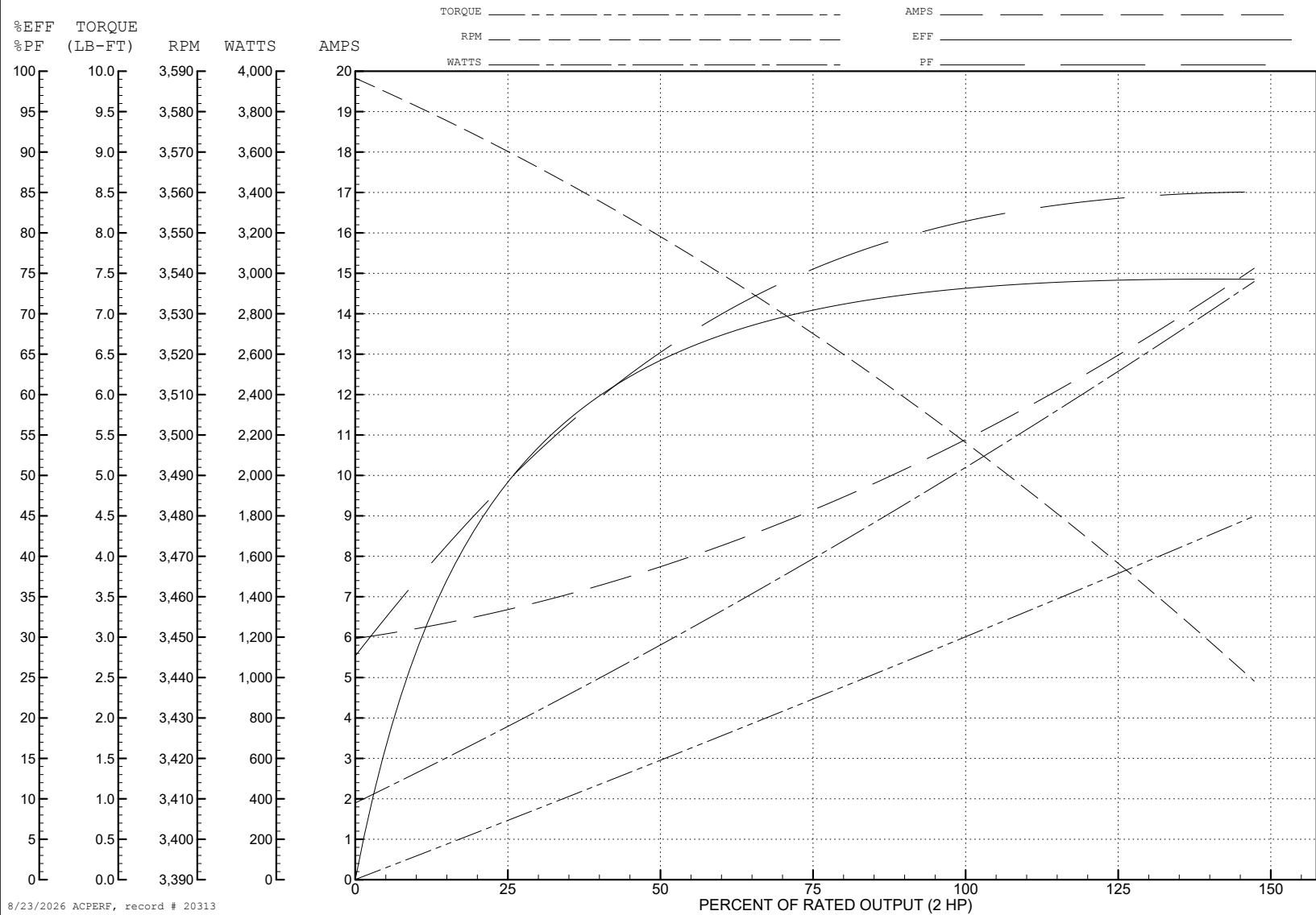
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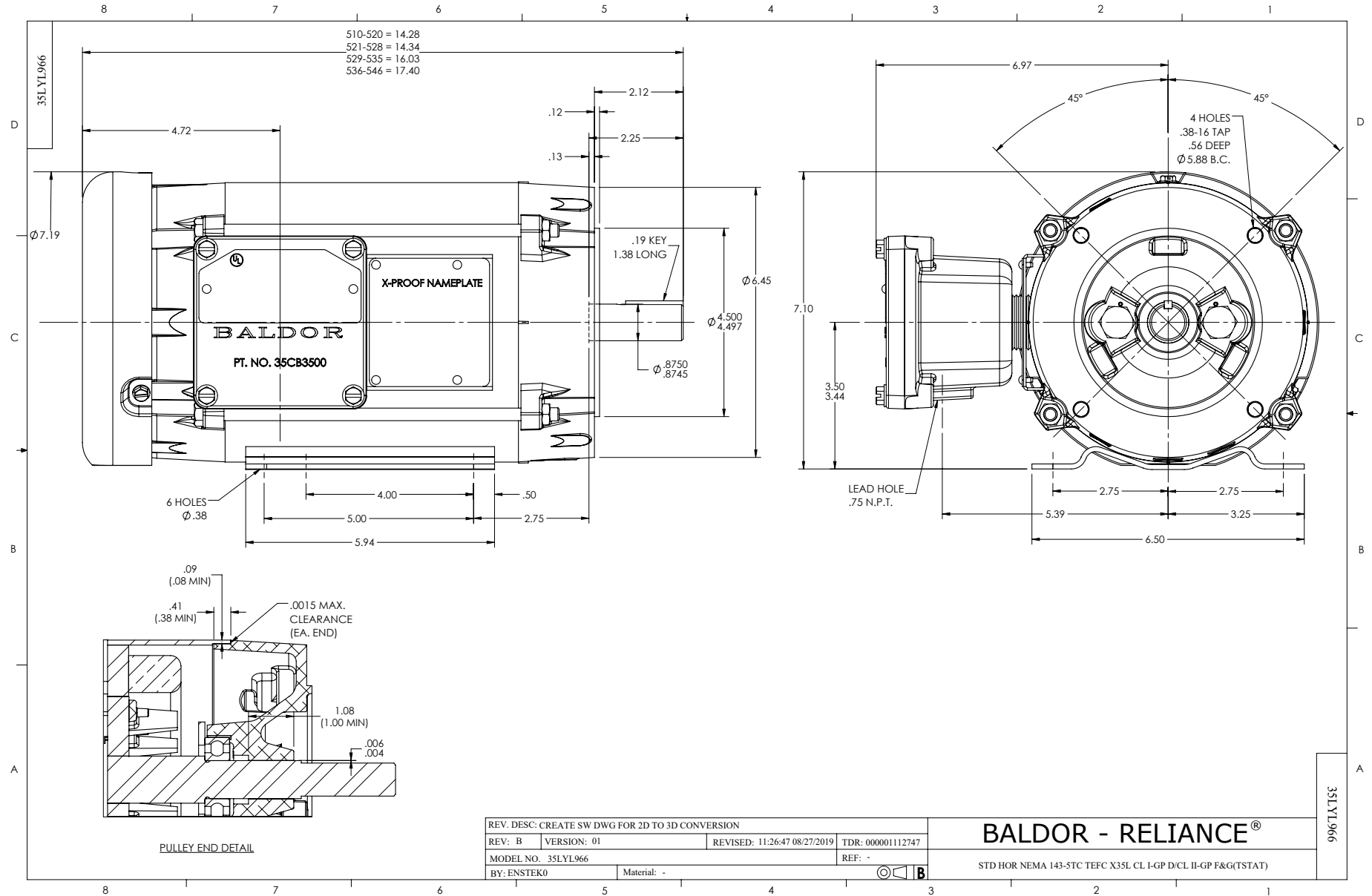
WINDING # 35WG0506

Typical performance - not guaranteed values.

2 HP 1 PH 60 HZ 3450 RPM 230 V 3535L

TORQUES (LB-FT) : PO=9 PU=6 LR=7.5 LRA=78





CD0001

