ABB BALDOR RELIANCE

Customer information packet

CESSWDM3550T

1.5HP, 3500RPM, 3PH, 60HZ, 143TC, 3532M, TENV
Class - None
Division - Not Applicable

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9/7/2026 4:54:38 AM

Specifications

Enclosure	TENV
Frame	143TC
Frame Material	Stainless Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	1.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	230.0 V @ 60 HZ
	208.0 V @ 60 HZ
Agency Approvals	CSA
	UR
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	3.700 A @ 208.0 V
	3.600 A @ 230.0 V
	1.800 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	85.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	U
Type	AC
Mech. spec.	35WW513
Base	
Status	PRD/A
Elec. spec.	35WGR929
Layout	35LYWW513
Eff. date	06-14-2024
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	02-17-2010

Heater Indicator	No Heater
High Voltage Full Load Amps	1.8 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	M
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3532M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	13.23 IN
Power Factor	90
Product Family	Wash Down All Stainless Steel
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
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	3500 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

NP1953A01									
CAT.NO.	CESSWDM3550T								
SPEC.	35WW513R929G1								
HP	1.5								
VOLTS	230/460								
AMP	3.6/1.8								
RPM	3500								
FRAME	143TC		**HZ**	60			**PH**	3	
SER.F.	1.15	**CODE**	M	**DES**	B	**CLASS**		F	
NEMA-NOM-EFF	85.5		**PF**	90					
RATING	40C AMB-CONT								
CC									
DE	6205		**ODE**	6203					
ENCL	TENV	**SN**							
	4:1CT 20:1VT								

AC Induction Motor Performance Data
Record # 69834
Typical performance - not guaranteed values

Winding: 35WGR929-R010	**Type:** 3532M	**Enclosure:** TENV

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			1.5	**Full Load Torque**	2.31 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			3.6/1.8	**Breakdown Torque**	10.9 LB-FT
R.P.M.			3500	**Pull-up Torque**	5.2 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	10.2 LB-FT
NEMA Design Code	B	**KVA Code**	M	**Starting Current**	20.6 A
Service Factor (S.F.)			1.15	**No-load Current**	0.694 A
NEMA Nom. Eff.	85.5	**Power Factor**	90	**Line-line Res. @ 25ºC**	7.64 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	78°C
S.F. Amps				**Temp. Rise @ S.F. Load**	90°C
				Locked-rotor Power Factor	45.7
				Rotor inertia	0.0885 LB-FT2

Load Characteristics 460 V, 60 Hz, 1.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	55	77	86	92	93	90	93
Efficiency	73.8	82.3	85.2	86.1	85.9	85.5	86
Speed	3564	3536	3507	3476	3444	3406	3457
Line amperes	0.907	1.15	1.48	1.81	2.23	2.75	2.06

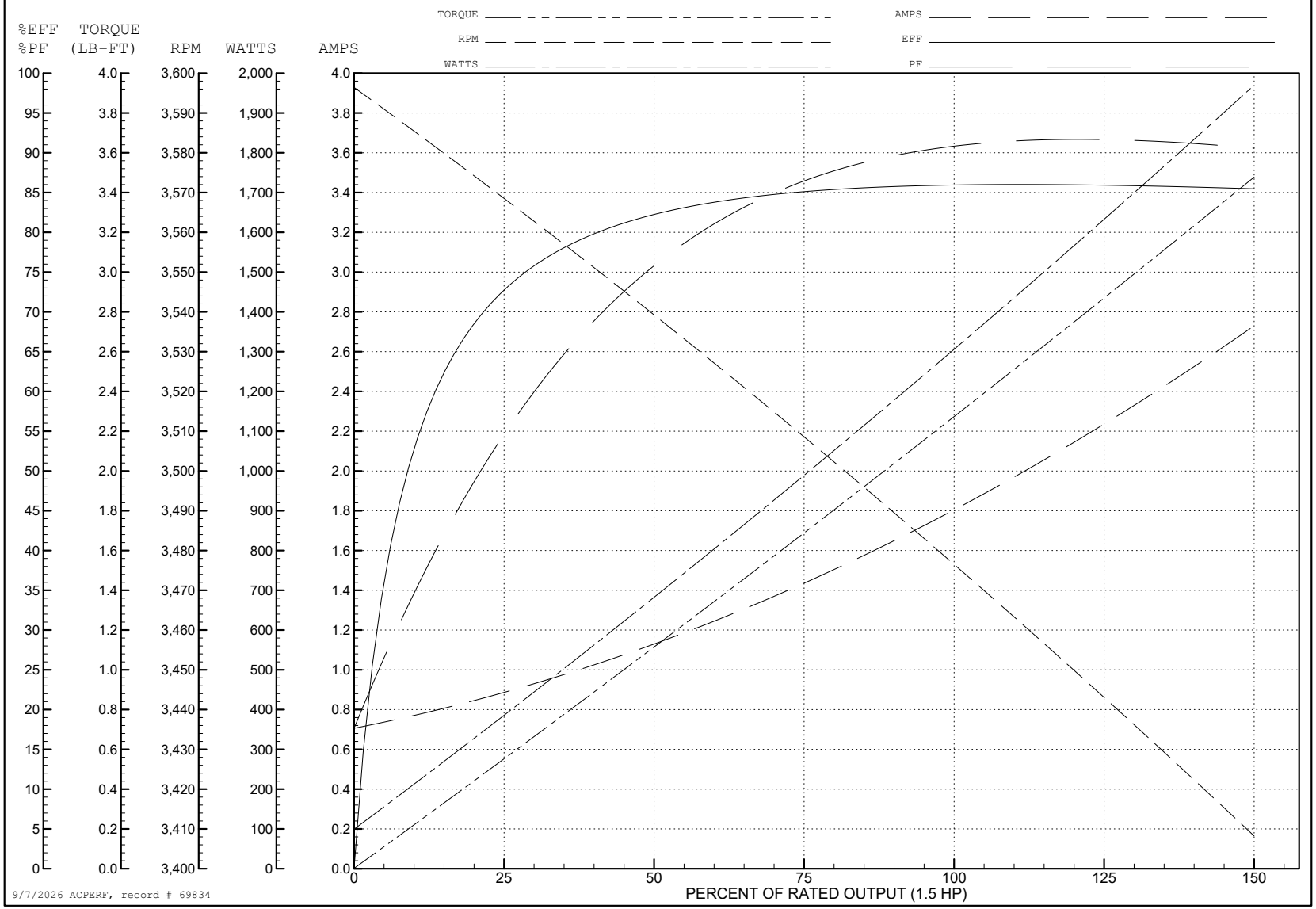
ABB Motors and Mechanical Inc.

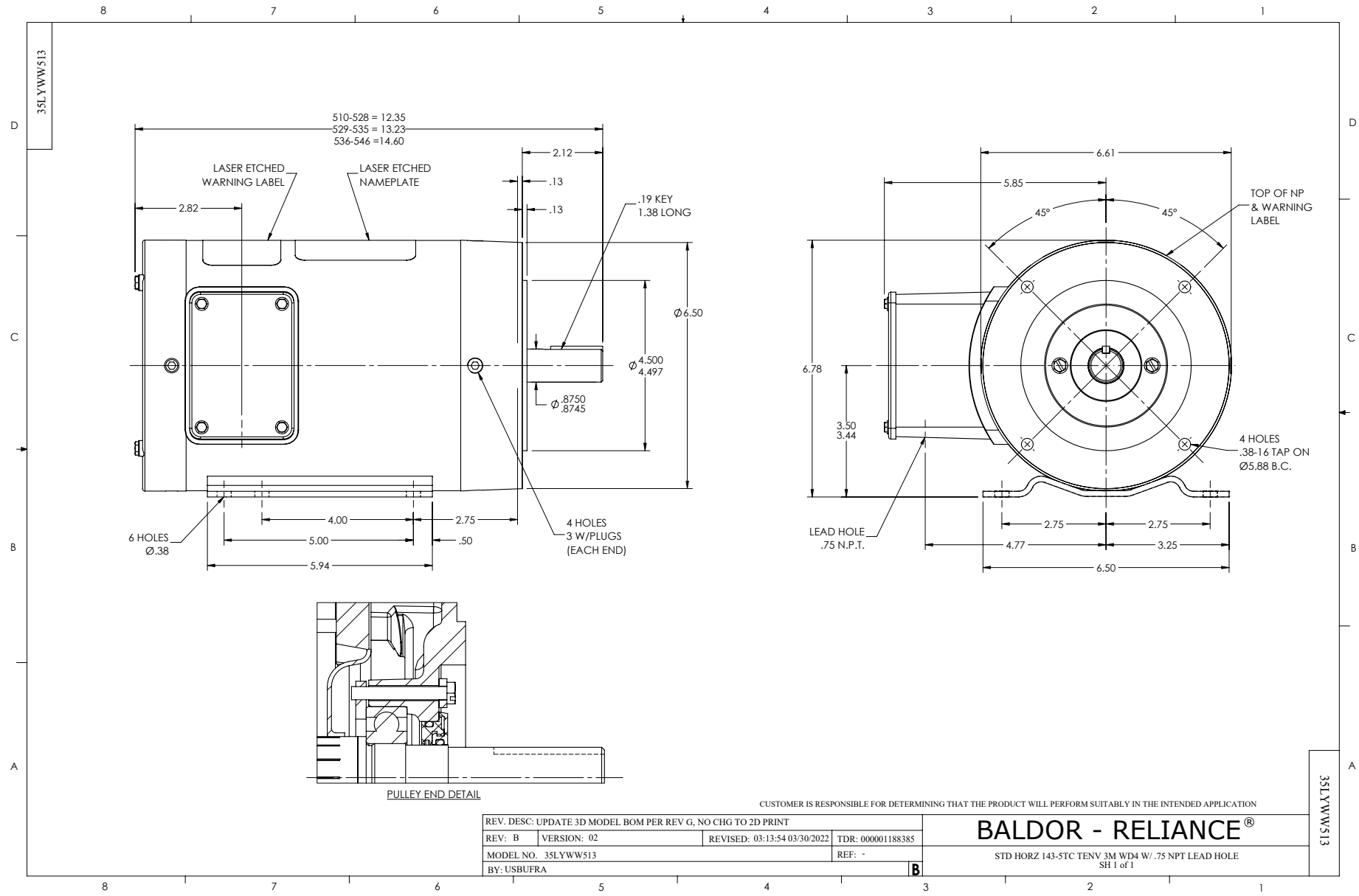
WINDING # 35WGR929

1.5 HP 3 PH 60 HZ 3500 RPM 460 V 3532M

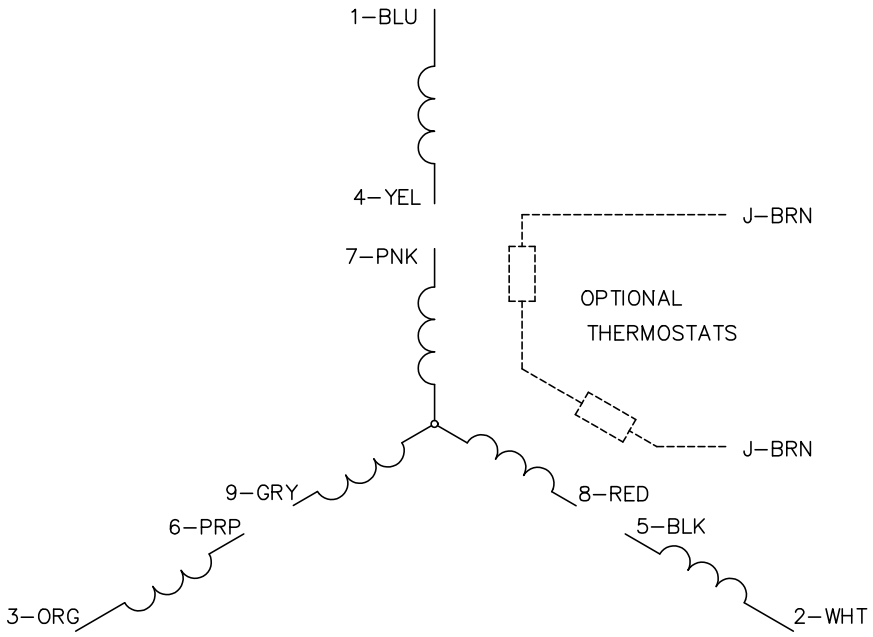
Typical performance - not guaranteed values.

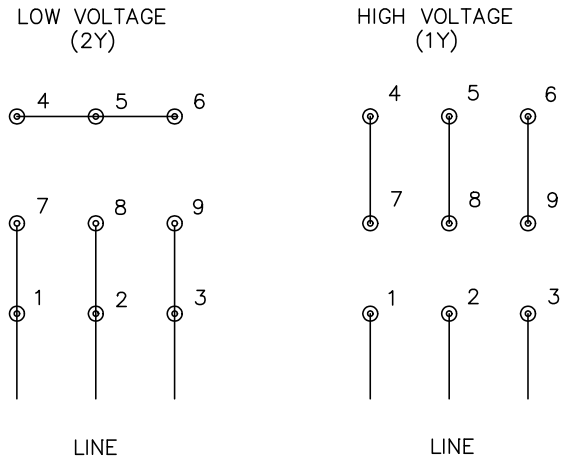
TORQUES(LB-FT): PO=10.9 PU=5.2 LR=10.2 LRA=20.6




35LYWW513
510-528 = 12.35
529-535 = 13.23
536-546 =14.60
2.12
.13
.13
LASER ETCHED WARNING LABEL
LASER ETCHED NAMEPLATE
2.82
.19 KEY 1.38 LONG
Ø6.50
Ø 4.500 4.497
Ø .8750 .8745
6 HOLES Ø.38
4.00
5.00
5.94
2.75
.50
4 HOLES 3 W/PLUGS (EACH END)
6.61
5.85
45°
45°
TOP OF NP & WARNING LABEL
6.78
3.50 3.44
4 HOLES .38-16 TAP ON Ø5.88 B.C.
LEAD HOLE .75 N.P.T.
2.75
2.75
4.77
3.25
6.50
PULLEY END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: UPDATE 3D MODEL BOM PER REV G, NO CHG TO 2D PRINT
REV: B
VERSION: 02
REVISED: 03:13:54 03/30/2022
TDR: 000001188385
MODEL NO. 35LYWW513
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
STD HORZ 143-5TC TENV 3M WD4 W/ .75 NPT LEAD HOLE
SH 1 of 1
35LYWW513

CD0005





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.

CD0005

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
CD0005		FILE: AAA00005140	MDL: –
		MTL: –	3PH, DV, 9 LEADS