ABB BALDOR RELIANCE

Customer information packet

EWDM3545T

1HP, 3450RPM, 3PH, 60HZ, 143T, TENV, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TENV
Frame	143T
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	1.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	CSA
	CSA EEV
	NEMA PREMIUM
	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	1.300 A @ 460.0 V
	2.600 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	82.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	1.3 a

Part Detail

Revision	C
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	35WGR933
Layout	35LYS584
Eff. date	02-14-2024
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	12-06-2019

Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3516M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	11.12 IN
Power Factor	88
Product Family	Wash Down
Pulley Face Code	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	3450 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

NP1669L									
CAT.NO.	EWDM3545T								
SPEC.	35-0000-0478								
HP	1								
VOLTS	230/460								
AMP	2.6/1.3								
RPM	3450								
FRAME	143T		**HZ**	60			**PH**	3	
SER.F.	1.15	**CODE**	L	**DES**	B	**CLASS**		F	
NEMA-NOM-EFF	82.5	**PF**	88						
RATING	40C AMB-CONT								
CC	010A								
DE	6205		**ODE**	6203					
ENCL	TENV	**SN**							
BLANK	20:1CT, 20:1VT,1.00SF								

AC Induction Motor Performance Data
Record # 79990
Typical performance - not guaranteed values

Winding: 35WGR933-R004	**Type:** 3516M	**Enclosure:** TENV

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			1	**Full Load Torque**	1.5 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			2.6/1.3	**Breakdown Torque**	7.5 LB-FT
R.P.M.			3450	**Pull-up Torque**	4.2 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	5.6 LB-FT
NEMA Design Code	B	**KVA Code**	L	**Starting Current**	12.4 A
Service Factor (S.F.)			1.15	**No-load Current**	0.63 A
NEMA Nom. Eff.	82.5	**Power Factor**	88	**Line-line Res. @ 25ºC**	15.2 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	80°C
S.F. Amps				**Temp. Rise @ S.F. Load**	93°C
				Locked-rotor Power Factor	56.1
				Rotor inertia	0.0443 LB-FT2

Load Characteristics 460 V, 60 Hz, 1 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	48	69	81	86	88	90	87
Efficiency	71.5	80.5	83.4	83.6	82.9	81.3	83.2
Speed	3560	3529	3494	3462	3423	3378	3439
Line amperes	0.7	0.85	1.04	1.28	1.58	1.86	1.46

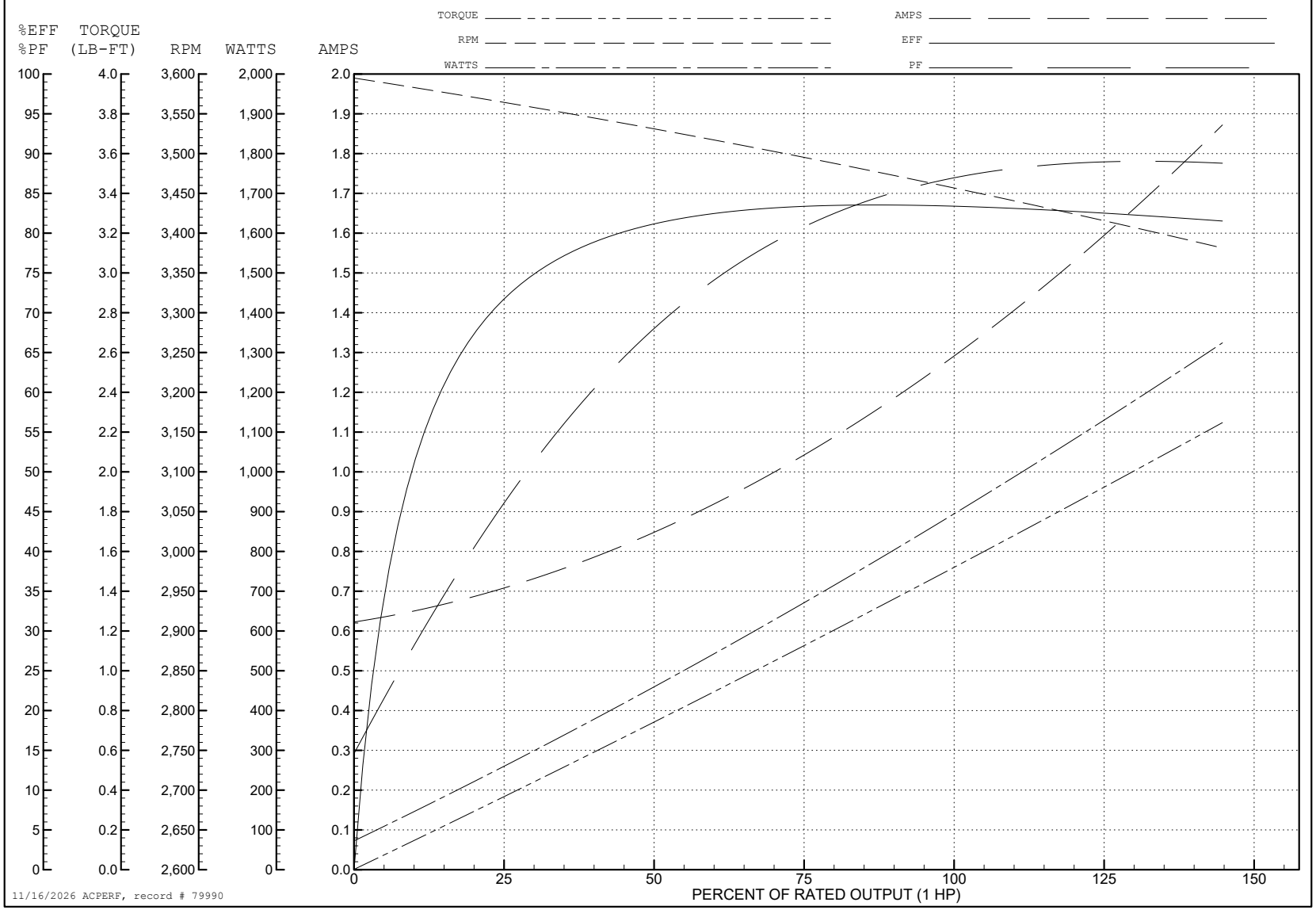
ABB Motors and Mechanical Inc.

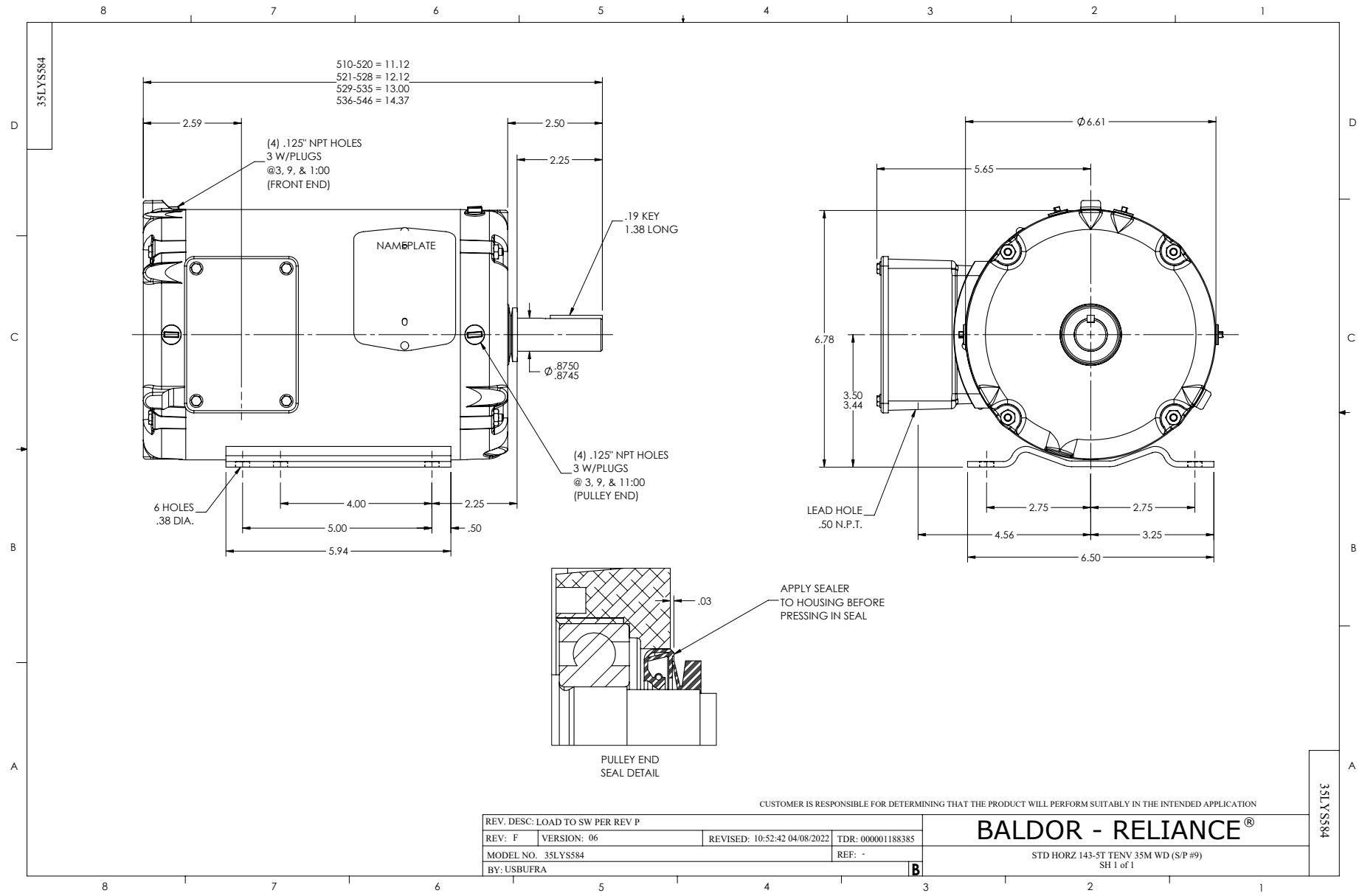
WINDING # 35WGR933

1 HP 3 PH 60 HZ 3450 RPM 460 V 3516M

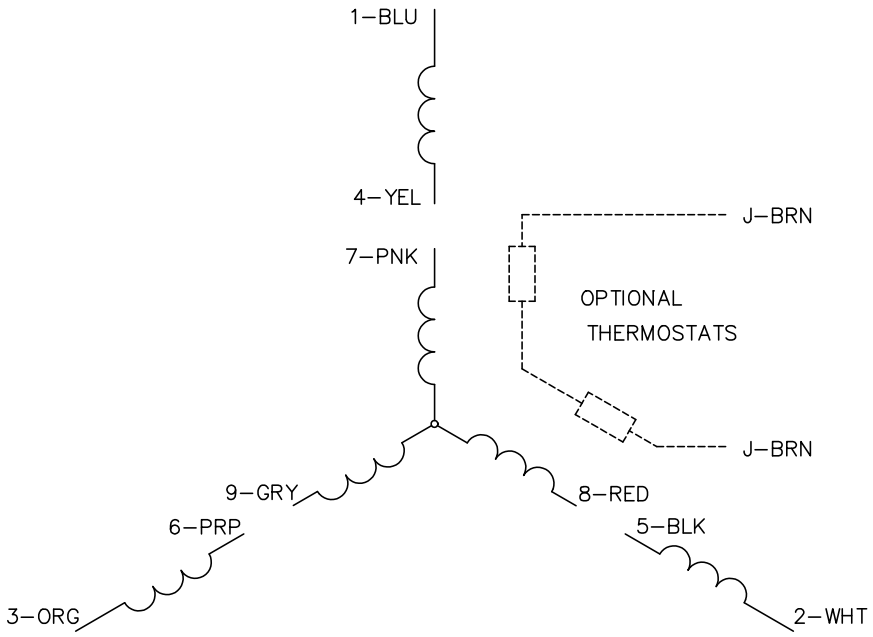
Typical performance - not guaranteed values.

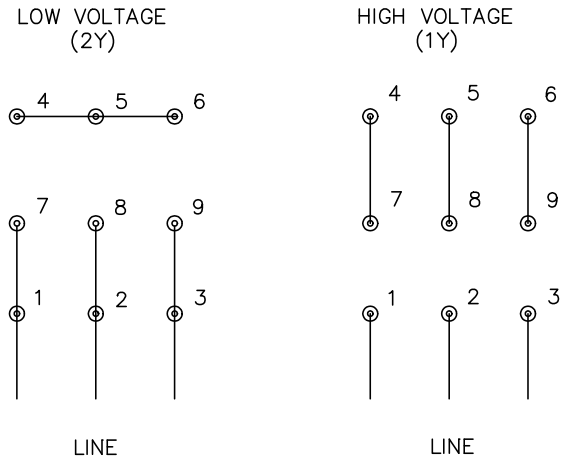
TORQUES(LB-FT): PO=7.5 PU=4.2 LR=5.6 LRA=12.4




35LYS584
510-520 = 11.12
521-528 = 12.12
529-535 = 13.00
536-546 = 14.37
2.59
2.50
2.25
(4) .125" NPT HOLES
3 W/PLUGS
@3, 9, & 1:00
(FRONT END)
.19 KEY
1.38 LONG
NAMEPLATE
Ø.8750
.8745
(4) .125" NPT HOLES
3 W/PLUGS
@ 3, 9, & 11:00
(PULLEY END)
6 HOLES
.38 DIA.
4.00
2.25
5.00
.50
5.94
Ø6.61
5.65
6.78
3.50
3.44
LEAD HOLE
.50 N.P.T.
2.75
2.75
4.56
3.25
6.50
.03
APPLY SEALER
TO HOUSING BEFORE
PRESSING IN SEAL
PULLEY END
SEAL DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD TO SW PER REV P
REV: F
VERSION: 06
REVISED: 10:52:42 04/08/2022
TDR: 000001188385
MODEL NO. 35LYS584
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
STD HORZ 143-5T TENV 35M WD (S/P #9)
SH 1 of 1
35LYS584

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