

ABB BALDOR RELIANCE III

Customer information packet

EWDM3545T

1HP, 3450RPM, 3PH, 60HZ, 143T, TENV, F1

Class - None

Division - Not Applicable

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								

Parts List

Part number	Description	Quantity
SA377329	SA 35-0000-0478	1.000 ea
RA367245	RA 35-0000-0478	1.000 ea
LB1164	LABEL,WARNING AND DRAIN	1.000 ea
LC0005	CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING	1.000 ea
NP1669L	SS WD SUPER-E UL PREM REV MTG	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
HA3100S07	THRUBOLT 10-32 X 8.375 SS	4.000 ea
XY1032S02	10-32 HEX NUT R.H. S STL	4.000 ea
35EP3122D00W	MASTER ODE,203 BRG,.125NPT DRNS(WHITE)	1.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
HW4072A01	BLACK DRAIN PLUG FOR .125 NPT	3.000 ea
35CB3008A01G	SPL CONDUIT BOX, MACHINED GRAY	1.000 ea
35GS1039	05 MOLDED GASKET W/LIP, 1.12 LEAD HOLE,	1.000 ea
35EP3123E00W	MASTER DE,205 BRG,1.623SH,.125NPT DRNS(W	1.000 ea
HW4600B32SP	V-RING SLINGER 1.000 X 1.540 X .24 VITON	1.000 ea
HW4600B49	SEAL 0.938 X 1.624 X 0.250 SINGLE LIP DB	1.000 ea
HA5027A02	HA4054 T-DRAIN X2 BAGGED WITH LABEL	1.000 ea
HW4072A01	BLACK DRAIN PLUG FOR .125 NPT	3.000 ea
51XB1016A08	10-16X 1/2HXWSSLD SERTYB	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
35CB4522	35 LIPPED CB LID PRIMED	1.000 ea
35GS1030A02	35 GS FOR CB LID - WHITE NEOPRENE	1.000 ea
59XW0832S07	TAPTITE II,HEX WSHR UNSLTD SER,410 S.S.,	4.000 ea
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 ea
MG1025W01	WILKOFAS, 781.01, SIGNAL WHITE #9003	0.022 ga
MJ5001A27	32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL	0.001 qt
35PA1066	PKG GRP, PRINT PK1008A07	1.000 ea
HW2502D13	SS KEY, 3/16 SQ X 1.375	1.000 ea
HA7000A01	KEY RETAINER 7/8" DIA SHAFT	1.000 ea

MG1025Z02	ACTIVATOR WILKOFAS	060.02HF 55 GALLON	0.022 ga
FE-0000001	ZRTG FE ASSEMBLY		1.000 ea
PE-0000002	ZRTG PE ASSEMBLY		1.000 ea

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	Locked-rotor Torque	5.6 LB-FT
NEMA Design Code	B KVA Code	Starting Current	12.4 A
Service Factor (S.F.)	1.15	No-load Current	0.63 A
NEMA Nom. Eff.	82.5 Power Factor	Line-line Res. @ 25°C	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-FT ²

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

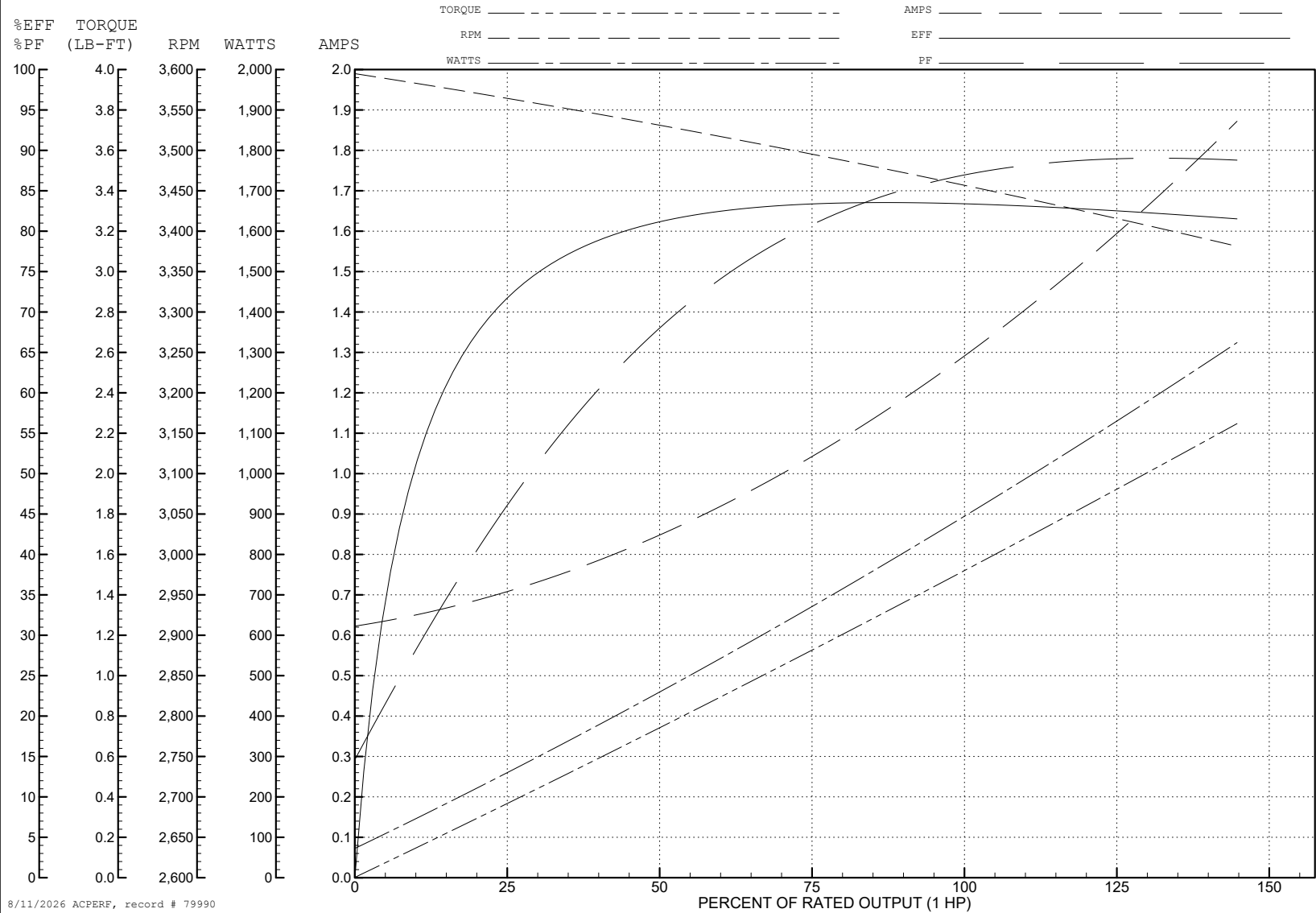
ABB Motors and Mechanical Inc.

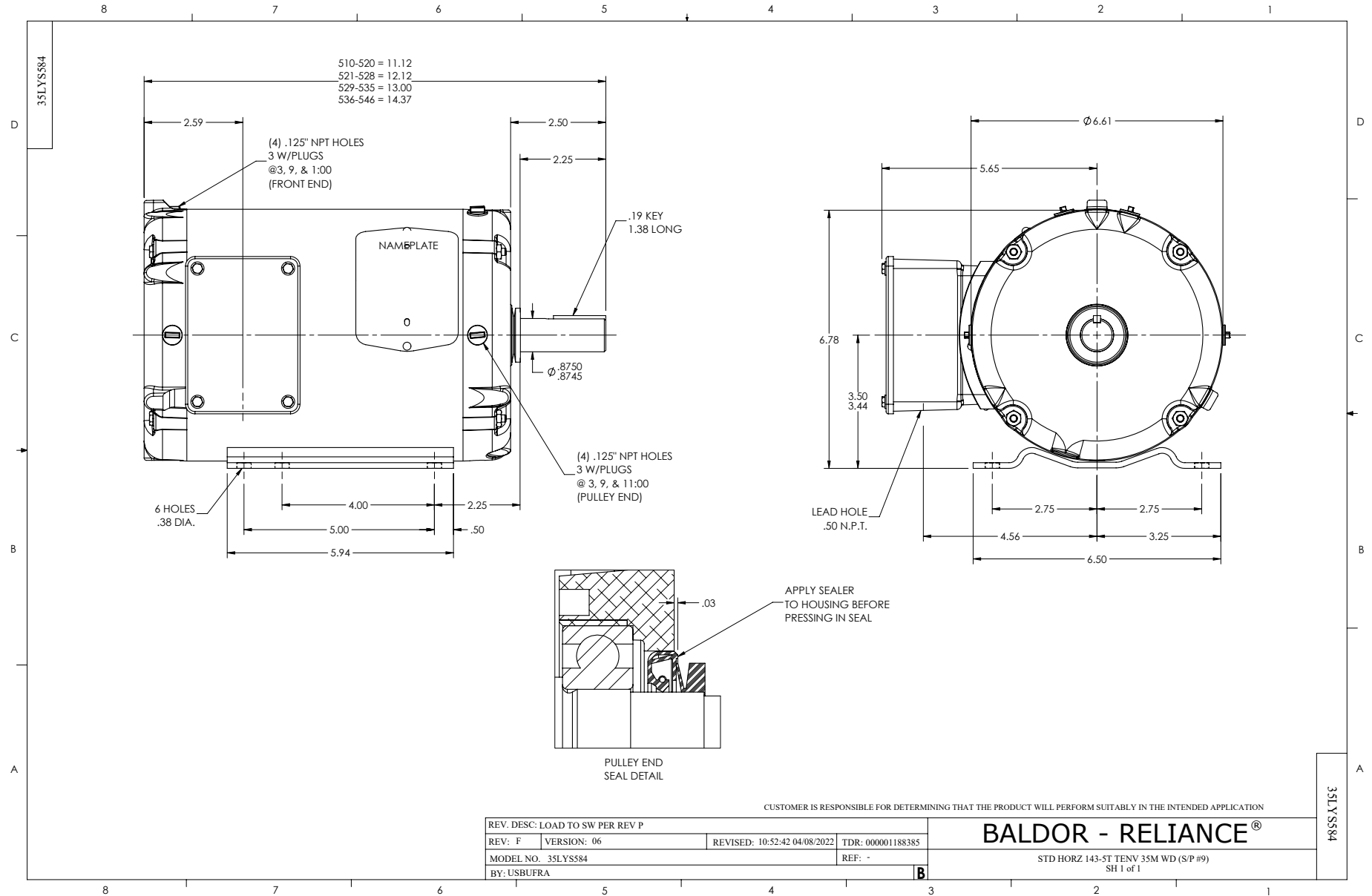
WINDING # 35WGR933

Typical performance - not guaranteed values.

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

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





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.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
900000		FILE: AAA00005140	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005