ABB BALDOR RELIANCE

Customer information packet

EWDM3555T

2HP, 3450RPM, 3PH, 60HZ, 145T, TEFC, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	145T
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	2.000 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	2.500 A @ 460.0 V
	5.000 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	2.5 a

Part Detail

Revision	C
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	35WGS811
Layout	35LYS585
Eff. date	02-14-2024
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	12-10-2019

Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	N
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3532M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	14.17 IN
Power Factor	85
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.	EWDM3555T								
SPEC.	35-0000-0479								
HP	2								
VOLTS	230/460								
AMP	5/2.5								
RPM	3450								
FRAME	145T	**HZ**	60			**PH**	3		
SER.F.	1.15	**CODE**	N	**DES**	B	**CLASS**	F		
NEMA-NOM-EFF	86.5	**PF**	85						
RATING	40C AMB-CONT								
CC	010A								
DE	6205	**ODE**	6203						
ENCL	TEFC	**SN**							
BLANK	20:1CT, 20:1VT,1.00SF								

AC Induction Motor Performance Data
Record # 50683
Typical performance - not guaranteed values

Winding: 35WGS811-R018	**Type:** 3532M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			2	**Full Load Torque**	3 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			5/2.5	**Breakdown Torque**	16 LB-FT
R.P.M.			3450	**Pull-up Torque**	12.5 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	16 LB-FT
NEMA Design Code	B	**KVA Code**	N	**Starting Current**	30 A
Service Factor (S.F.)			1.15	**No-load Current**	1.1 A
NEMA Nom. Eff.	86.5	**Power Factor**	85	**Line-line Res. @ 25ºC**	5.4 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	35°C
S.F. Amps				**Temp. Rise @ S.F. Load**	44°C
				Locked-rotor Power Factor	45
				Rotor inertia	0.0885 LB-FT2

Load Characteristics 460 V, 60 Hz, 2 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	50	70	80	85	88	89	87
Efficiency	75.2	83.8	86.2	86.5	86.4	85.5	86.5
Speed	3571	3548	3525	3501	3476	3448	3486
Line amperes	1.28	1.65	2.09	2.55	3.08	3.64	2.9

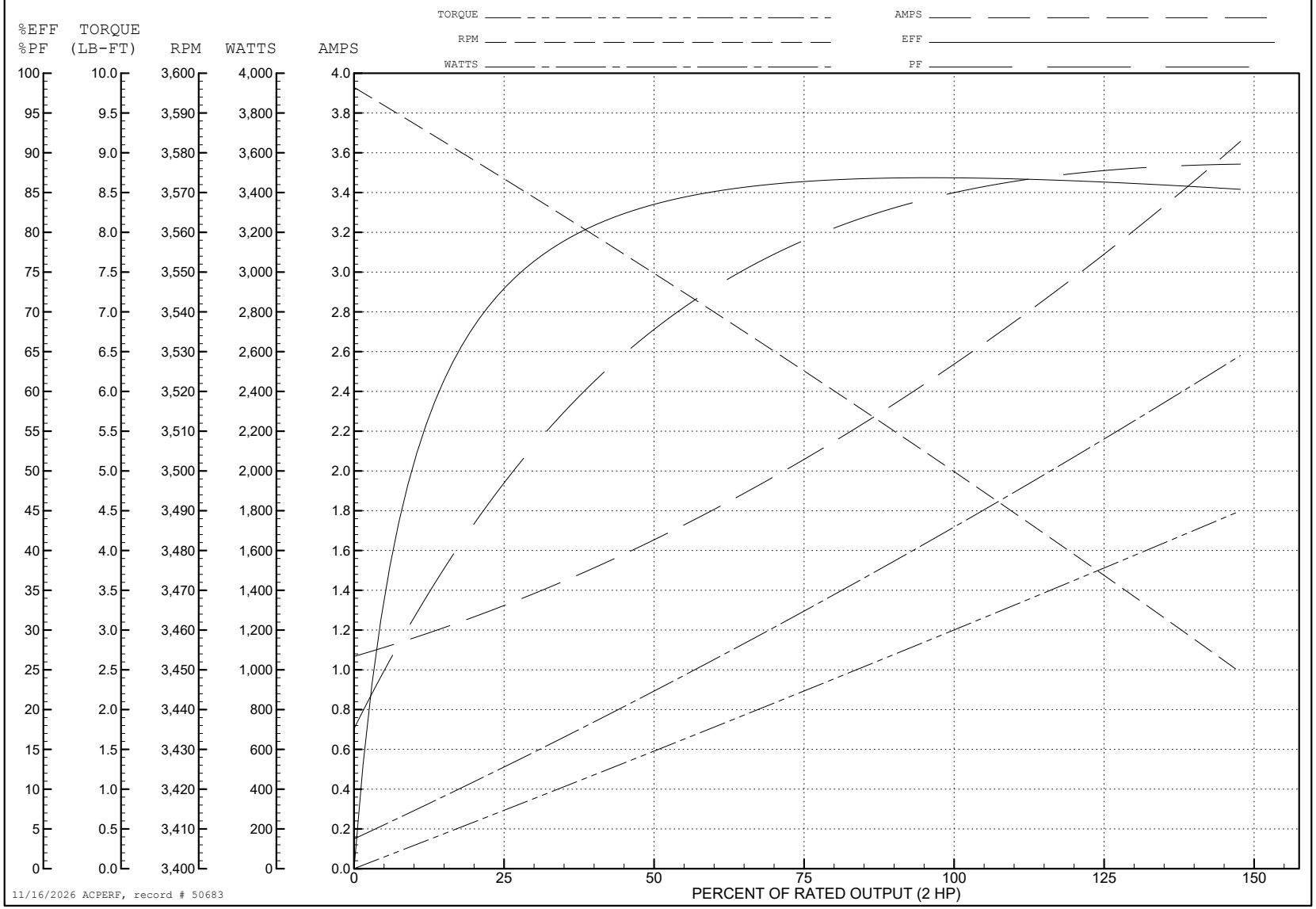
ABB Motors and Mechanical Inc.

WINDING # 35WGS811

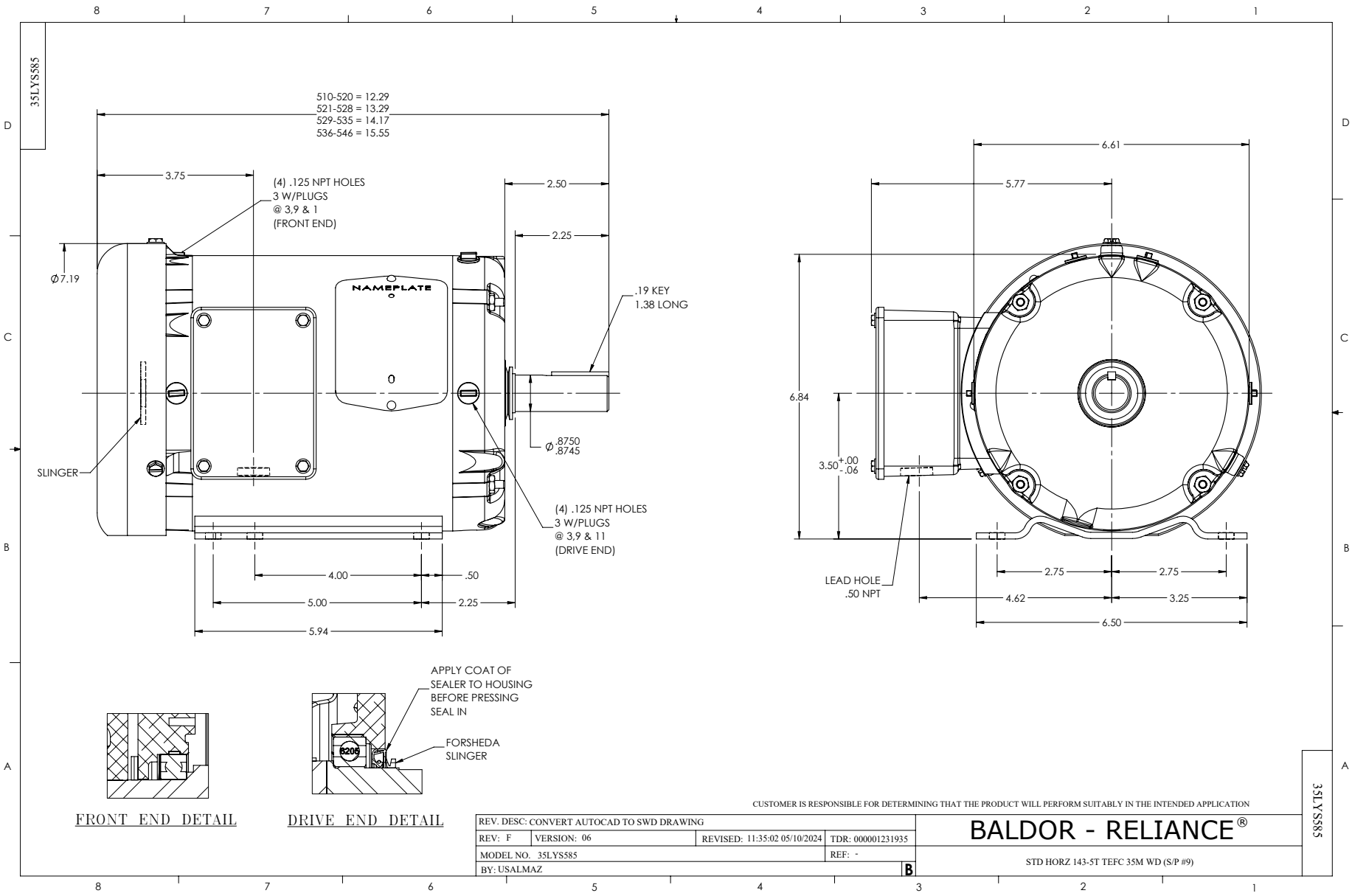
2 HP 3 PH 60 HZ 3450 RPM 460 V 3532M

Typical performance - not guaranteed values.

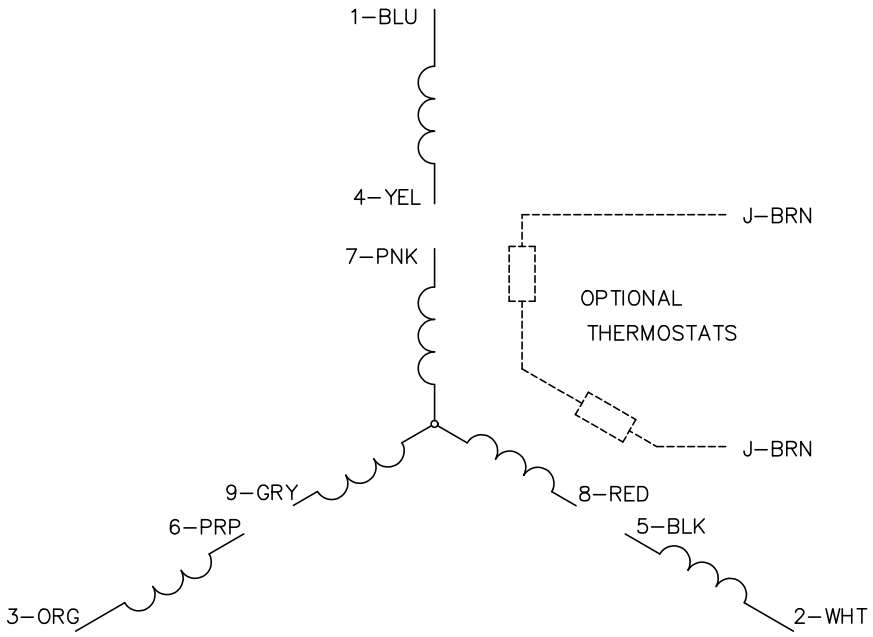
TORQUES(LB-FT): PO=16 PU=12.5 LR=16 LRA=30

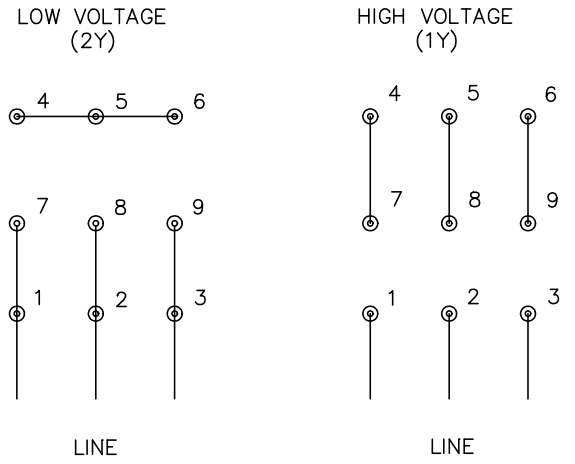


11/16/2026 ACPERF, record # 50683


35LYS585
510-520 = 12.29
521-528 = 13.29
529-535 = 14.17
536-546 = 15.55
3.75
(4) .125 NPT HOLES
3 W/PLUGS
@ 3,9 & 1
(FRONT END)
2.50
2.25
Ø7.19
NAMEPLATE
.19 KEY
1.38 LONG
SLINGER
Ø.8750
.8745
(4) .125 NPT HOLES
3 W/PLUGS
@ 3,9 & 11
(DRIVE END)
4.00
.50
5.00
2.25
5.94
6.61
5.77
6.84
3.50 +.00 -.06
LEAD HOLE
.50 NPT
2.75
2.75
4.62
3.25
6.50
APPLY COAT OF
SEALER TO HOUSING
BEFORE PRESSING
SEAL IN
FORSHEDA
SLINGER
6205
FRONT END DETAIL
DRIVE END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD TO SWD DRAWING
REV: F
VERSION: 06
REVISED: 11:35:02 05/10/2024
TDR: 000001231935
MODEL NO. 35LYS585
REF: -
BY: USALMAZ
B
BALDOR - RELIANCE®
STD HORZ 143-5T TEFC 35M WD (S/P #9)
35LYS585

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