ABB BALDOR RELIANCE

Customer information packet

EWDM3556T

1//.75HP, 1155//970RPM, 3PH, 60//50HZ, 145T
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	145T
Frame Material	Steel
Frequency	50.00 Hz
	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	.750 HP @ 50 HZ
	1.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	380.0 V @ 50 HZ
	230.0 V @ 60 HZ
	190.0 V @ 50 HZ
	460.0 V @ 60 HZ
Agency Approvals	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	3.500 A @ 208.0 V
	3.200 A @ 190.0 V
	3.000 A @ 230.0 V
	1.600 A @ 380.0 V
	1.500 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover

Part Detail

Revision	E
Type	AC
Mech. spec.	35S585
Base	
Status	PRD/A
Elec. spec.	35WGG019
Layout	35LYS585
Eff. date	04-23-2026
CD Diagram	CD0005
Poles	06
Leads	9#18
Proprietary	False
Created date	02-23-2023

Duty Rating	CONT
Efficiency @ 100% Load	82.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	1.5 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	J
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3526M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	13.29 IN
Power Factor	67
Product Family	Wash Down
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	1155 rpm
	970 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.	EWDM3556T							
SPEC.	35S585G019							
HP	1//.75							
VOLTS	230/460//190/380							
AMP	3/1.5//3.2/1.6							
RPM	1155//970							
FRAME	145T	**HZ**	60//50		**PH**	3		
SER.F.	1.15	**CODE**	J	**DES**	B	**CLASS**	F	
NEMA-NOM-EFF	82.5	**PF**	67					
RATING	40C AMB-CONT							
CC								
DE	6205	**ODE**	6203					
ENCL	TEFC	**SN**						
BLANK	SFA 3.7/1.85//3.5/1.75							

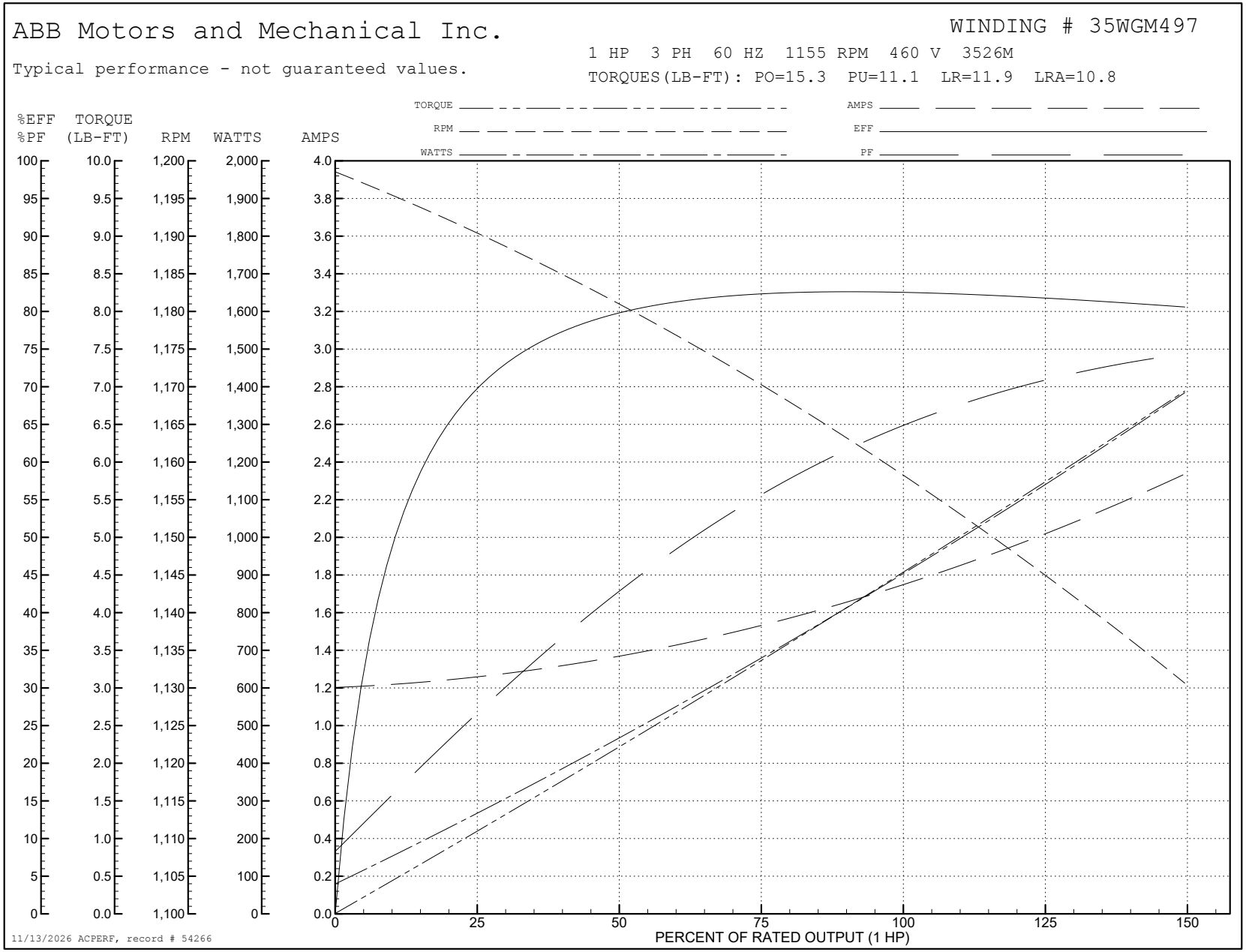
AC Induction Motor Performance Data
Record # 54266
Typical performance - not guaranteed values

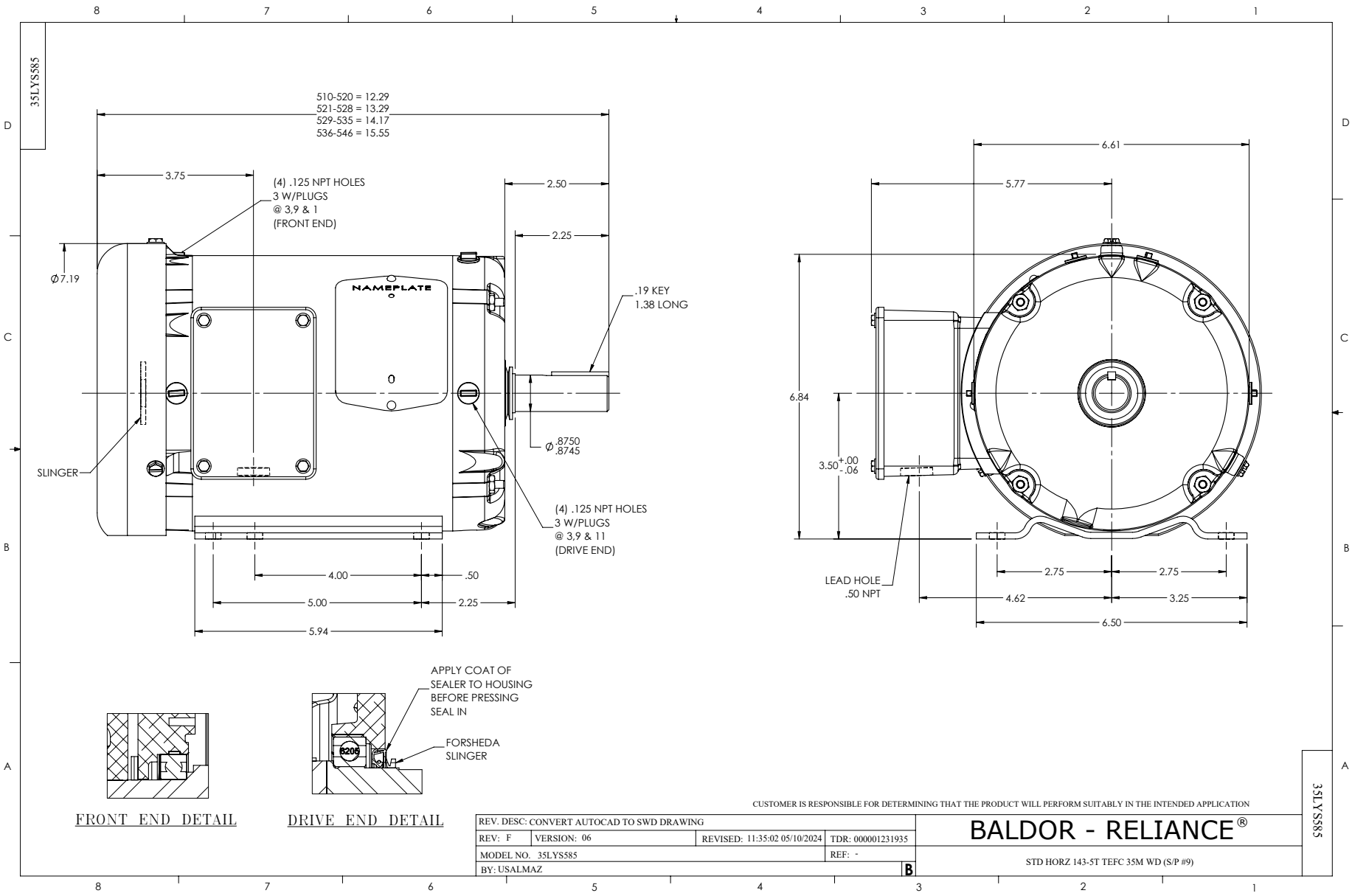
Winding: 35WGM497-R012	**Type:** 3526M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			1	**Full Load Torque**	4.51 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			3.6/1.8	**Breakdown Torque**	15.3 LB-FT
R.P.M.			1155	**Pull-up Torque**	11.1 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	11.9 LB-FT
NEMA Design Code	B	**KVA Code**	K	**Starting Current**	10.8 A
Service Factor (S.F.)			1.15	**No-load Current**	1.21 A
NEMA Nom. Eff.	82.5	**Power Factor**	64	**Line-line Res. @ 25ºC**	16.1 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	47°C
S.F. Amps				**Temp. Rise @ S.F. Load**	56°C
				Locked-rotor Power Factor	41.5
				Rotor inertia	0.155 lb-ft²

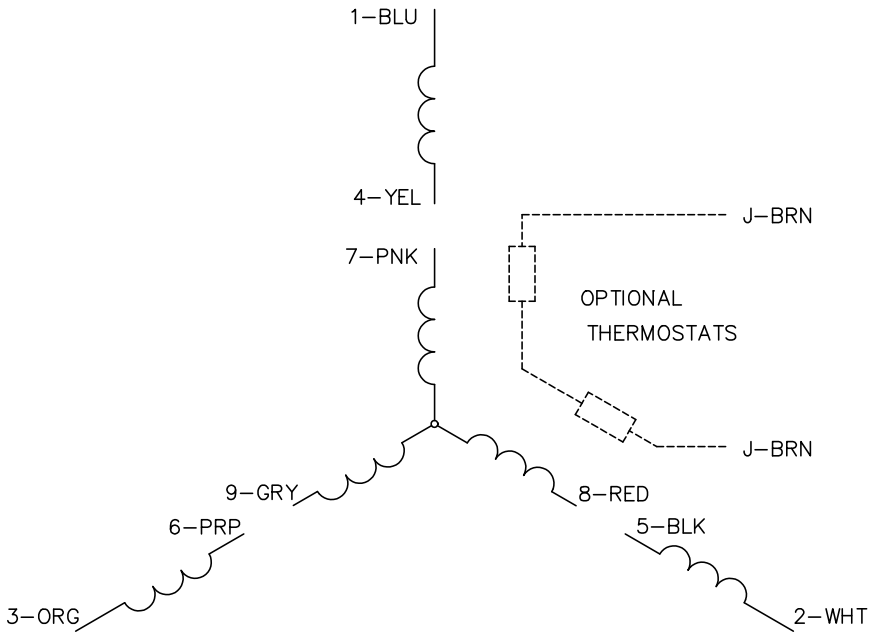
Load Characteristics 460 V, 60 Hz, 1 HP

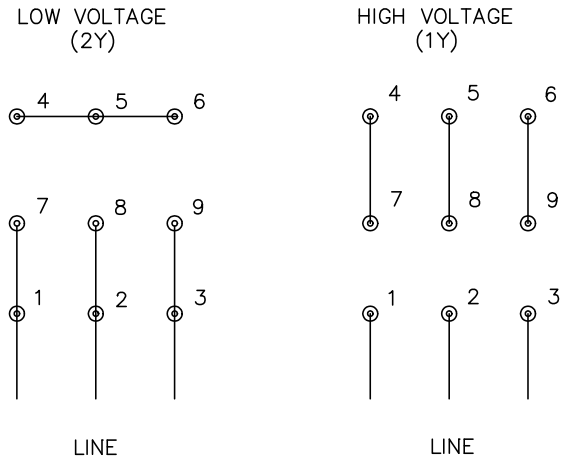
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	27	43	55	64	70	75	68
Efficiency	69.2	79.4	82.1	82.7	82	80.4	82.4
Speed	1190	1181	1170	1159	1146	1130	1151
Line amperes	1.25	1.36	1.53	1.75	2.02	2.33	1.91


ABB Motors and Mechanical Inc.
WINDING # 35WGM497
Typical performance - not guaranteed values.
1 HP 3 PH 60 HZ 1155 RPM 460 V 3526M
TORQUES(LB-FT): PO=15.3 PU=11.1 LR=11.9 LRA=10.8
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (1 HP)
11/13/2026 ACPERF, record # 54266


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