ABB BALDOR RELIANCE

Customer information packet

CEWDM3554T-5

1.5HP, 1770RPM, 3PH, 60HZ, 145TC, 3530M, TENV
Class - None
Division - Not Applicable

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Specifications

Enclosure	TENV
Frame	145TC
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	1.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	NEMA PREMIUM NEMA_PREMIUM UR CSA EEV
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	1.700 A @ 575.0 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
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	1.7 a
Insulation Class	F

Part Detail

Revision	A
Type	AC
Mech. spec.	35SS592
Base	
Status	PRD/A
Elec. spec.	35WGG195
Layout	35LYSS592
Eff. date	02-14-2024
CD Diagram	CD0006
Poles	04
Leads	3#18
Proprietary	False
Created date	03-11-2022

Inverter Code	Not Inverter
KVA Code	M
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	3 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3530M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	13.00 IN
Power Factor	77
Product Family	Wash Down
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 Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1770 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.	CEWDM3554T-5										
SPEC.	35SS592G195G1										
HP	1.5										
VOLTS	575										
AMP	1.7										
RPM	1770										
FRAME	145TC		**HZ**	60			**PH**	3			
SER.F.	1.15	**CODE**	M	**DES**	B	**CLASS**	F				
NEMA-NOM-EFF	86.5	**PF**	77								
RATING	40C AMB-CONT										
CC	010A										
DE	6205		**ODE**	6203							
ENCL	TENV	**SN**									
BLANK	SFA 1.9										

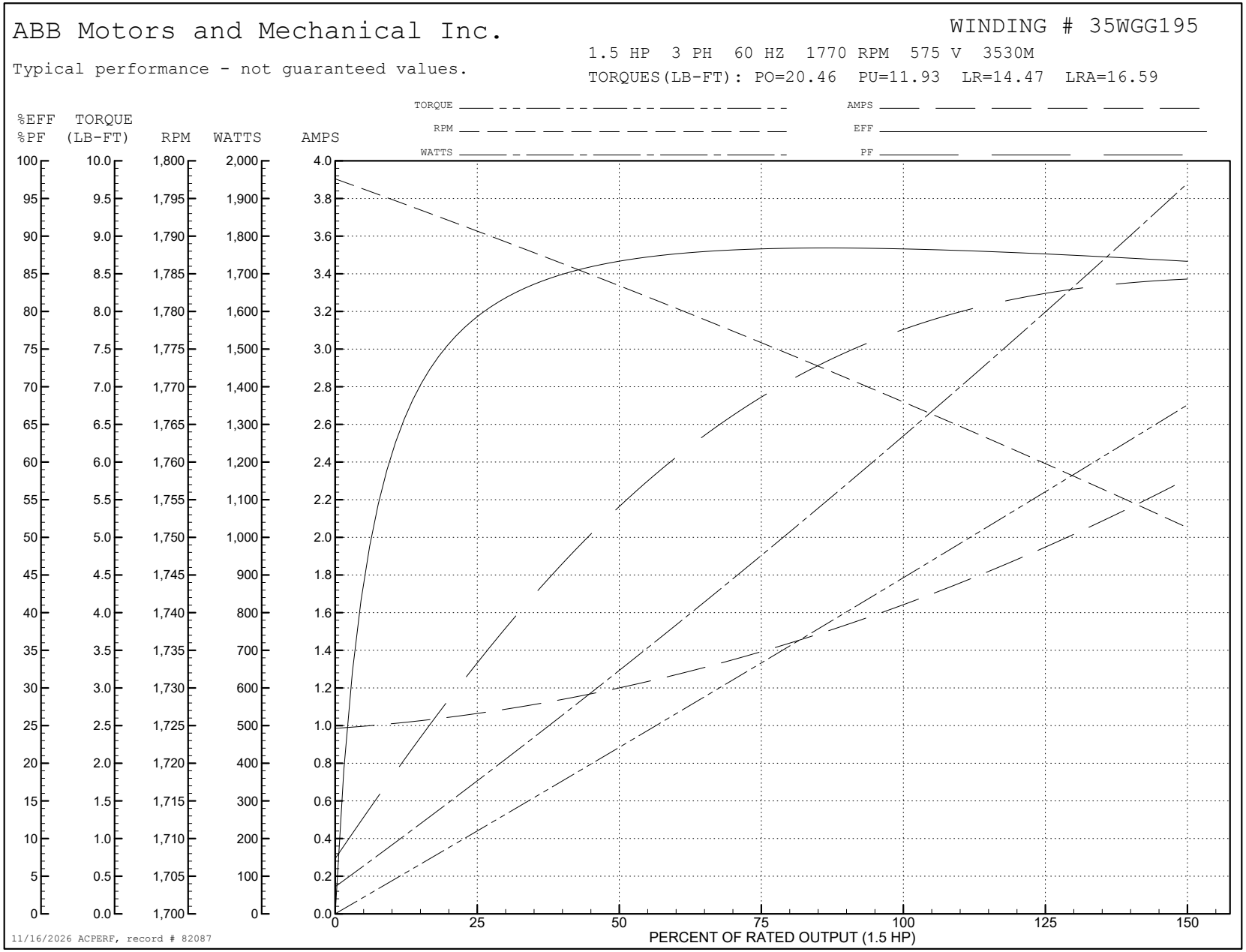
AC Induction Motor Performance Data
Record # 82087
Typical performance - not guaranteed values

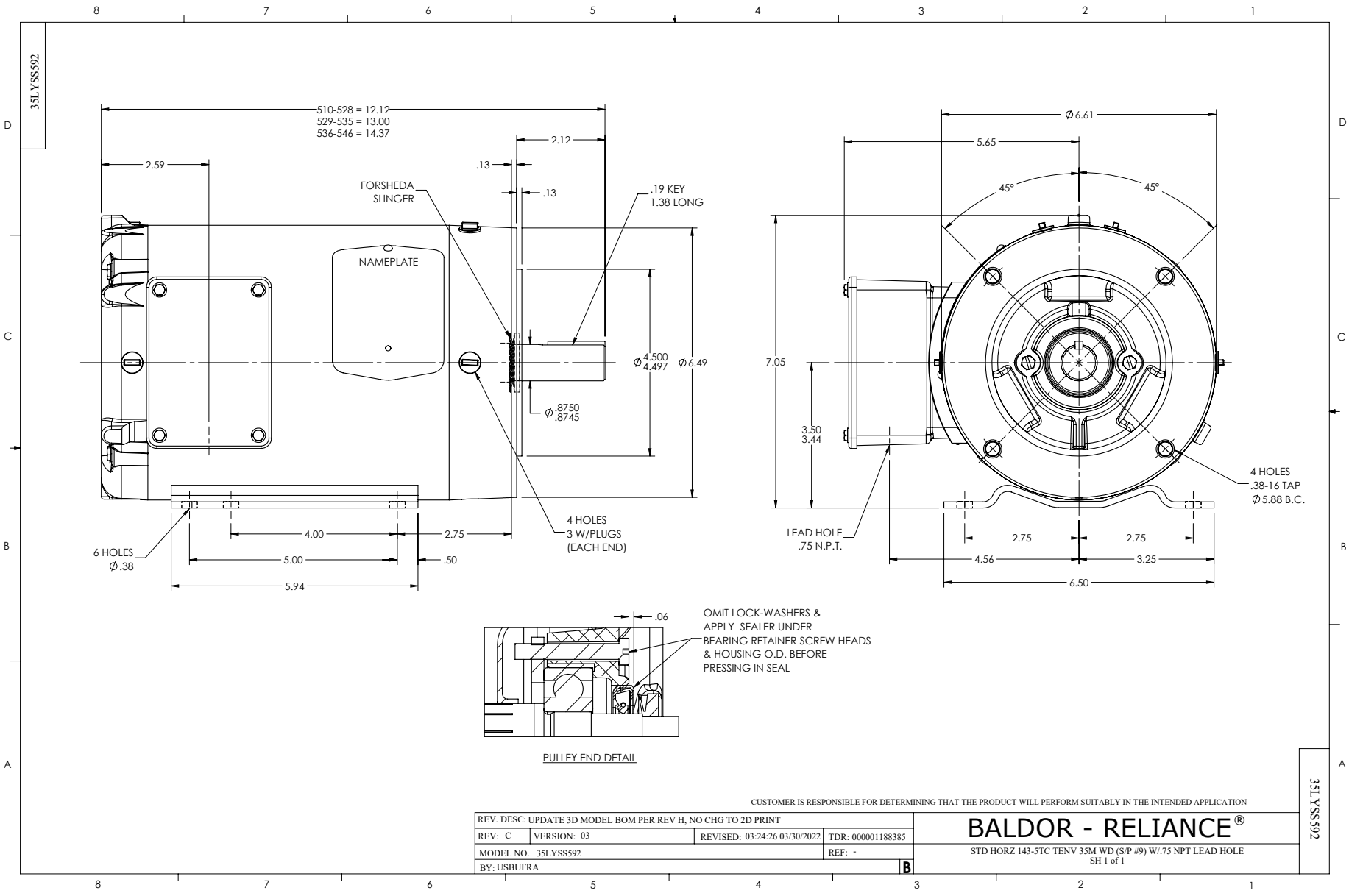
Winding: 35WGG195-R001	**Type:** 3530M	**Enclosure:** TENV

Nameplate Data				**575 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			1.5	**Full Load Torque**	4.47 LB-FT
Volts			575	**Start Configuration**	direct on line
Full Load Amps			1.7	**Breakdown Torque**	20.46 LB-FT
R.P.M.			1770	**Pull-up Torque**	11.93 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	14.47 LB-FT
NEMA Design Code	B	**KVA Code**	M	**Starting Current**	16.59 A
Service Factor (S.F.)			1.15	**No-load Current**	1 A
NEMA Nom. Eff.	86.5	**Power Factor**	77	**Line-line Res. @ 25ºC**	16.1 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	71°C
S.F. Amps			1.9	**Temp. Rise @ S.F. Load**	83°C
				Locked-rotor Power Factor	55.3
				Rotor inertia	0.217 lb-ft²

Load Characteristics 575 V, 60 Hz, 1.5 HP

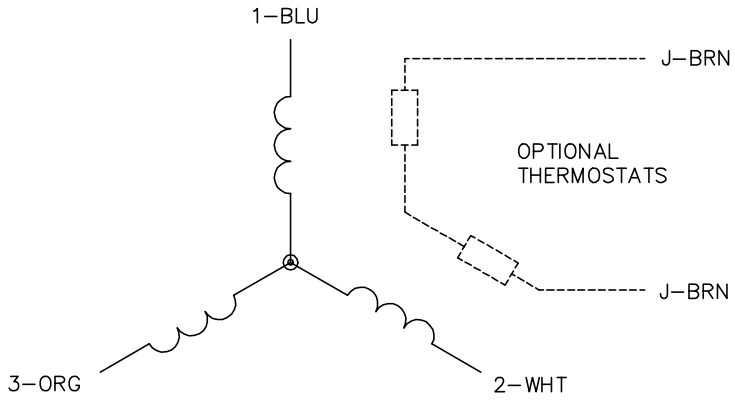
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	34	55	69	77	82	85	80
Efficiency	79.3	86.4	88.4	88.3	87.7	86.5	87.9
Speed	1790	1783	1776	1768	1760	1751	1763
Line amperes	1.05	1.19	1.4	1.66	1.96	2.3	1.84

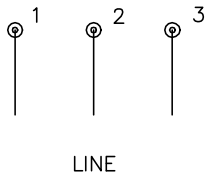

ABB Motors and Mechanical Inc.
WINDING # 35WGG195
Typical performance - not guaranteed values.
1.5 HP 3 PH 60 HZ 1770 RPM 575 V 3530M
TORQUES(LB-FT): PO=20.46 PU=11.93 LR=14.47 LRA=16.59
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (1.5 HP)
11/16/2026 ACPERF, record # 82087


35LYSS592
510-528 = 12.12
529-535 = 13.00
536-546 = 14.37
2.59
2.12
.13
.13
FORSHEDA SLINGER
.19 KEY 1.38 LONG
NAMEPLATE
Ø 4.500 4.497
Ø 6.49
Ø .8750 .8745
4 HOLES 3 W/PLUGS (EACH END)
6 HOLES Ø .38
4.00
2.75
5.00
.50
5.94
Ø 6.61
5.65
45°
45°
7.05
3.50 3.44
4 HOLES .38-16 TAP Ø 5.88 B.C.
LEAD HOLE .75 N.P.T.
2.75
2.75
4.56
3.25
6.50
.06
OMIT LOCK-WASHERS & APPLY SEALER UNDER BEARING RETAINER SCREW HEADS & HOUSING O.D. BEFORE PRESSING IN SEAL
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 H, NO CHG TO 2D PRINT
REV: C
VERSION: 03
REVISED: 03:24:26 03/30/2022
TDR: 000001188385
MODEL NO. 35LYSS592
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
STD HORZ 143-5TC TENV 35M WD (S/P #9) W/.75 NPT LEAD HOLE
SH 1 of 1
35LYSS592

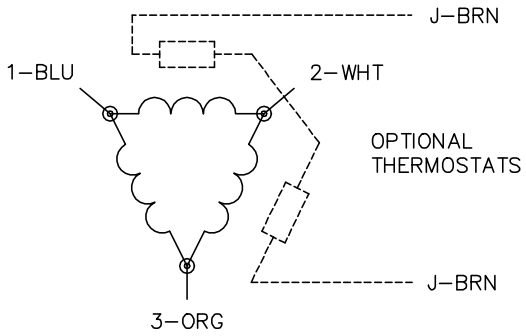
CD0006

TYPICAL WYE–CONNECTED MOTOR





TYPICAL DELTA–CONNECTED MOTOR



NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

REV. DESC: ADD CLASS CONN00000007			BALDOR - RELIANCE®
REV. LTR: E	VERSION: 01	TDR: 000001099922	
FILE: \AAA\00005\141	REVISED: 10:24:49 02/19/2019	BY: ENBRIR0	3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED
MTL: –			SH 1 of 1