ABB BALDOR RELIANCE

Customer information packet

CESWDM3554T-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	Stainless 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.	35SS621
Base	
Status	PRD/A
Elec. spec.	35WGG195
Layout	35LYSS621
Eff. date	02-14-2024
CD Diagram	CD0006
Poles	04
Leads	3#18 Y
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 Paint Free
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	No 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.	CESWDM3554T-5										
SPEC.	35SS621G195G1										
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			
Rated Output (HP)			1.5
Volts			575
Full Load Amps			1.7
R.P.M.			1770
Hz	60	**Phase**	3
NEMA Design Code	B	**KVA Code**	M
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	86.5	**Power Factor**	77
Rating - Duty			40C AMB-CONT
S.F. Amps			1.9

575 V, 60 Hz: Single Voltage Motor	
Full Load Torque	4.47 LB-FT
Start Configuration	direct on line
Breakdown Torque	20.46 LB-FT
Pull-up Torque	11.93 LB-FT
Locked-rotor Torque	14.47 LB-FT
Starting Current	16.59 A
No-load Current	1 A
Line-line Res. @ 25ºC	16.1 Ω
Temp. Rise @ Rated Load	71°C
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

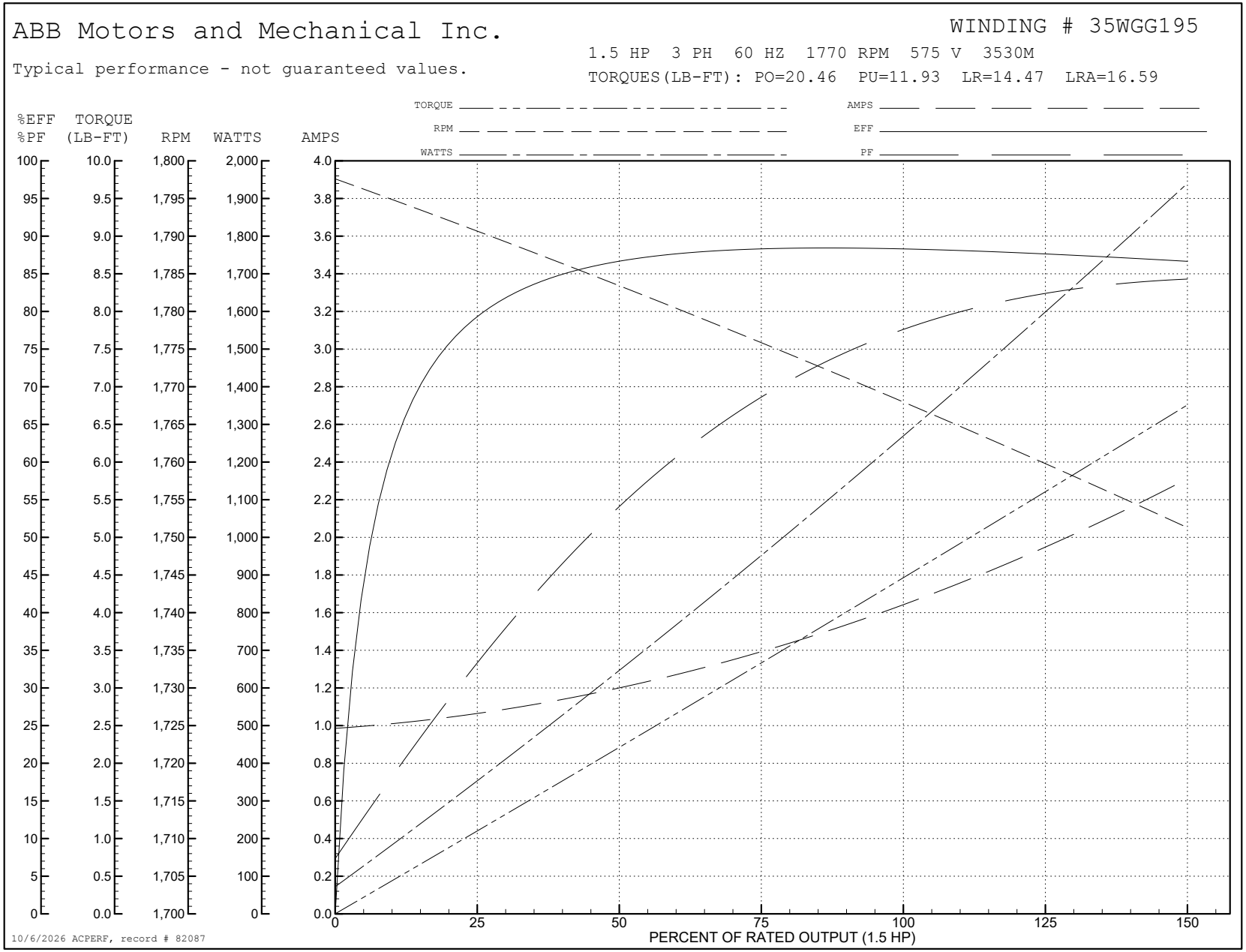
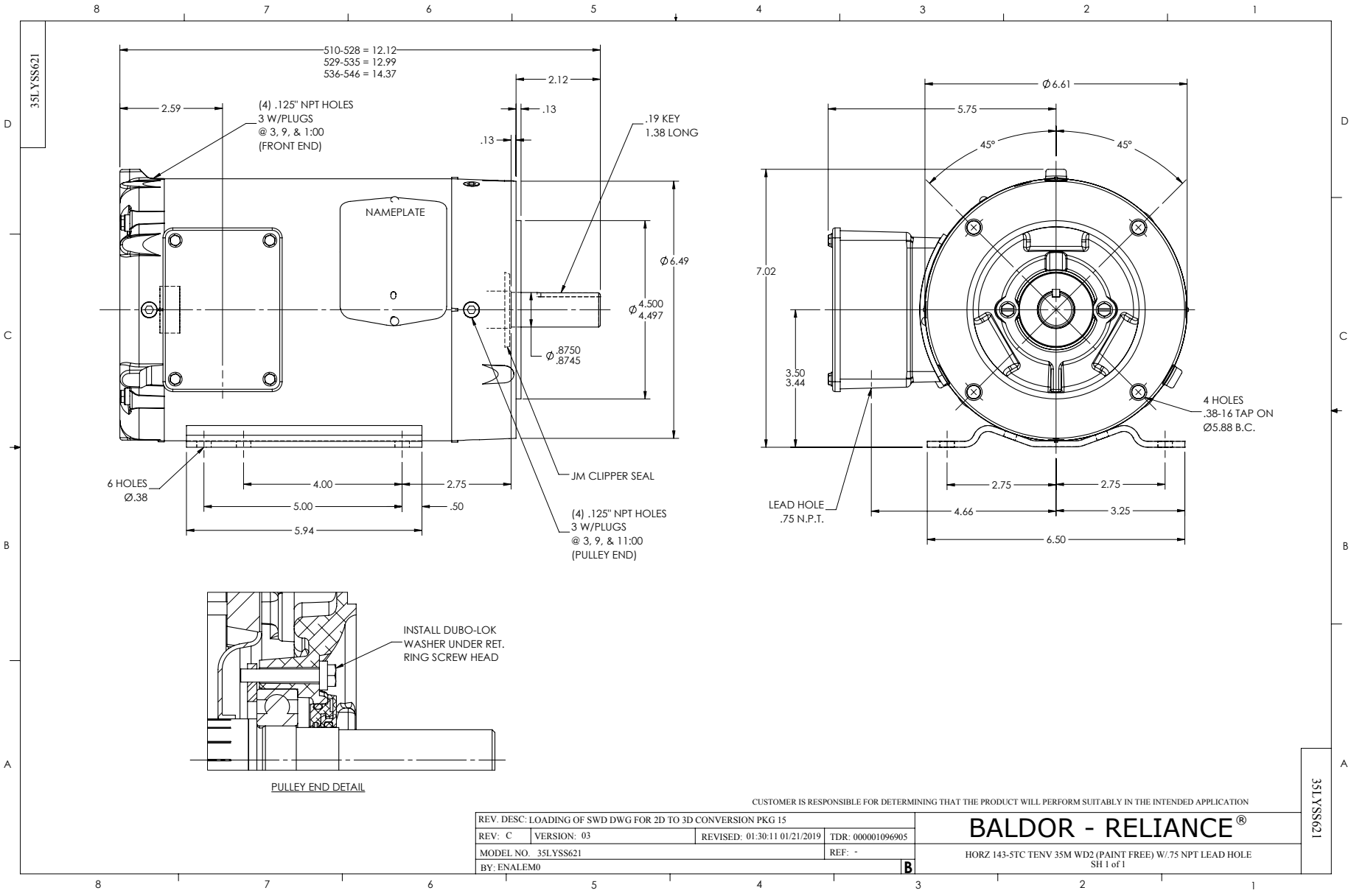
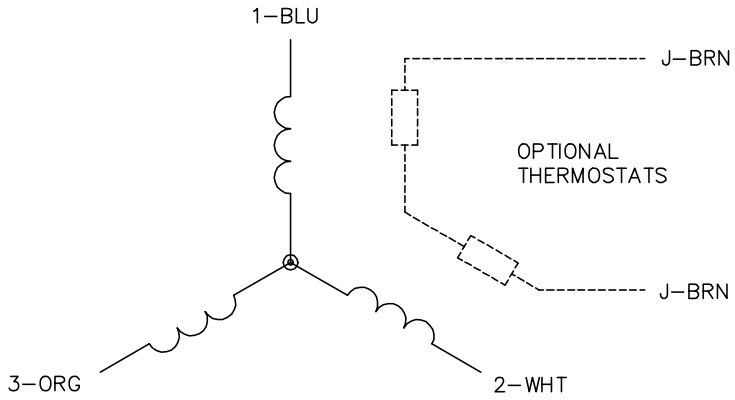


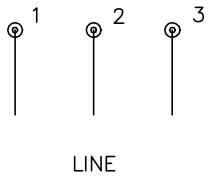
ABB Motors and Mechanical Inc.
WINDING # 35WGG195
Typical performance - not guaranteed values.
1.5 HP 3 PH 60 HZ 1770 RPM 575 V 3530M
TORQUES(LB-FT): PO=20.46 PU=11.93 LR=14.47 LRA=16.59
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (1.5 HP)
10/6/2026 ACPERF, record # 82087


35LYSS621
510-528 = 12.12
529-535 = 12.99
536-546 = 14.37
2.12
2.59
(4) .125" NPT HOLES
3 W/PLUGS
@ 3, 9, & 1:00
(FRONT END)
.13
.13
.19 KEY
1.38 LONG
NAMEPLATE
Ø6.49
Ø4.500
4.497
Ø.8750
.8745
6 HOLES
Ø.38
4.00
2.75
5.00
.50
5.94
JM CLIPPER SEAL
(4) .125" NPT HOLES
3 W/PLUGS
@ 3, 9, & 11:00
(PULLEY END)
Ø6.61
5.75
45°
45°
7.02
3.50
3.44
4 HOLES
.38-16 TAP ON
Ø5.88 B.C.
LEAD HOLE
.75 N.P.T.
2.75
2.75
4.66
3.25
6.50
INSTALL DUBO-LOK
WASHER UNDER RET.
RING SCREW HEAD
PULLEY END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOADING OF SWD DWG FOR 2D TO 3D CONVERSION PKG 15
REV: C
VERSION: 03
REVISED: 01:30:11 01/21/2019
TDR: 000001096905
MODEL NO. 35LYSS621
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HORZ 143-5TC TENV 35M WD2 (PAINT FREE) W/.75 NPT LEAD HOLE
SH 1 of 1
35LYSS621

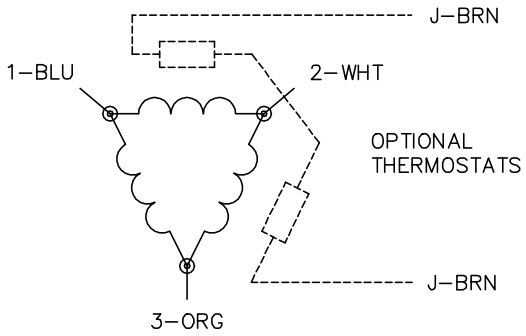
CD0006

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		
REV. LTR: E	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\141	REVISED: 10:24:49 02/19/2019	BY: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

SH 1 of 1