ABB BALDOR RELIANCE

Customer information packet

WDM3561TP

3HP, 1645RPM, 3PH, 60HZ, 143T, 3540M, TEFC, F3
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
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	3.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	CSA
	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	4.300 A @ 460.0 V
	8.600 A @ 230.0 V
	8.800 A @ 208.0 V
Design Code	D
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	81.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	4.3 a

Part Detail

Revision	N
Type	AC
Mech. spec.	35E2679
Base	
Status	PRD/A
Elec. spec.	35WGG301
Layout	35LYE2679
Eff. date	08-07-2026
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	10-01-2021

Insulation Class	H
Inverter Code	Not Inverter
KVA Code	H
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	3540M
Mounting Arrangement	F3
Number of Poles	4
Overall Length	15.53 IN
Power Factor	80
Product Family	Wash Down
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1645 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

NP1496L								
CAT.NO.	WDM3561TP							
SPEC.	35E2679G301G1							
HP	3							
VOLTS	230/460							
AMP	8.2/4.1							
RPM	1690							
FRAME	145T	**HZ**	60			**PH**	3	
SER.F.	1.00	**CODE**	H	**DES**	D	**CLASS**	H	
NEMA-NOM-EFF	81.5	**PF**	80					
RATING	40C AMB-CONT							
CC								
DE	6205	**ODE**	6203					
ENCL	TEFC	**SN**						

AC Induction Motor Performance Data
Record # 86945
Preliminary Data Sheet

Winding: 35WGG301-R001	**Type:** 3540M	**Enclosure:** TEFC

Nameplate Data			
Rated Output (HP)			3
Volts			230/460
Full Load Amps			8.6/4.3
R.P.M.			1655
Hz	60	**Phase**	3
NEMA Design Code	D	**KVA Code**	H
Service Factor (S.F.)			1
NEMA Nom. Eff.	81.5	**Power Factor**	80
Rating - Duty			40C AMB-CONT

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	9.54 LB-FT
Start Configuration	direct on line
Breakdown Torque	34.9 LB-FT
Pull-up Torque	34.8 LB-FT
Locked-rotor Torque	39.2 LB-FT
Starting Current	26 A
No-load Current	2.25 A
Line-line Res. @ 25ºC	5.66 Ω
Temp. Rise @ Rated Load	105°C
Locked-rotor Power Factor	70.6
Rotor inertia	0.289 lb-ft²

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	37	59	72	79	84	86
Efficiency	80.2	85.1	85	82.7	79.5	75.5
Speed	1768	1736	1701	1658	1610	1553
Line amperes	2.39	2.83	3.46	4.29	5.27	6.47

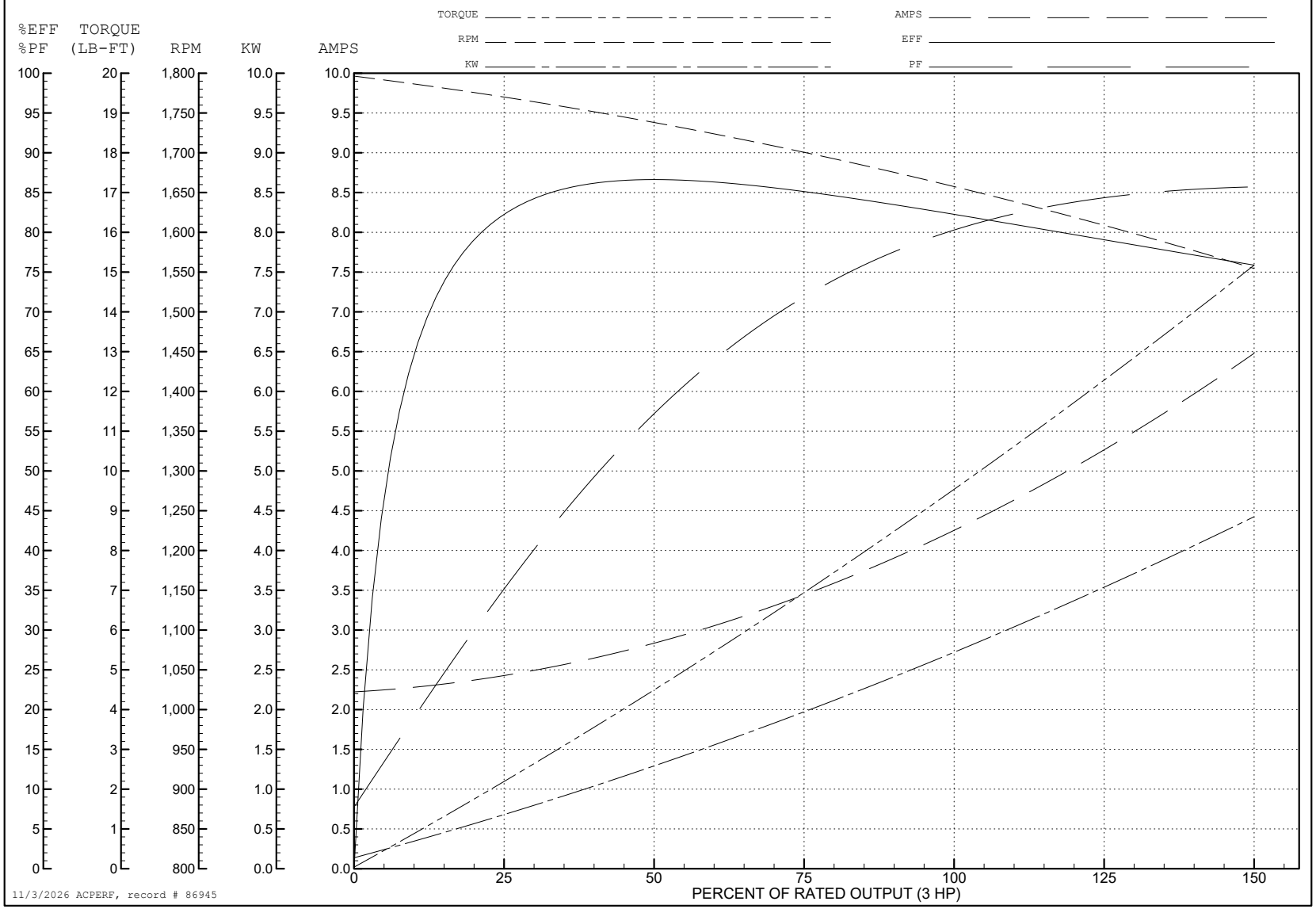
ABB Motors and Mechanical Inc.

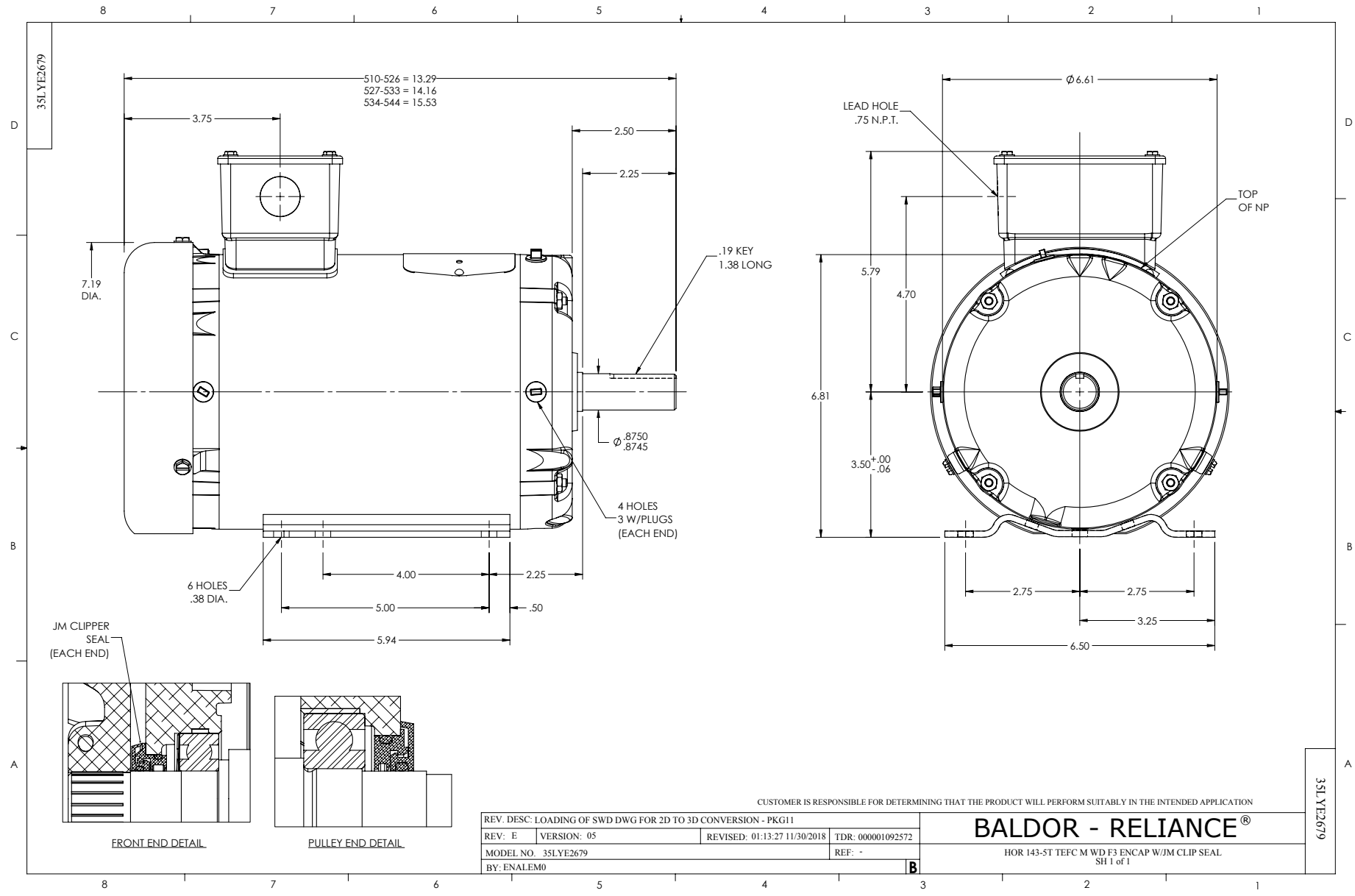
WINDING # 35WGG301

3 HP 3 PH 60 HZ 1655 RPM 460 V 3540M

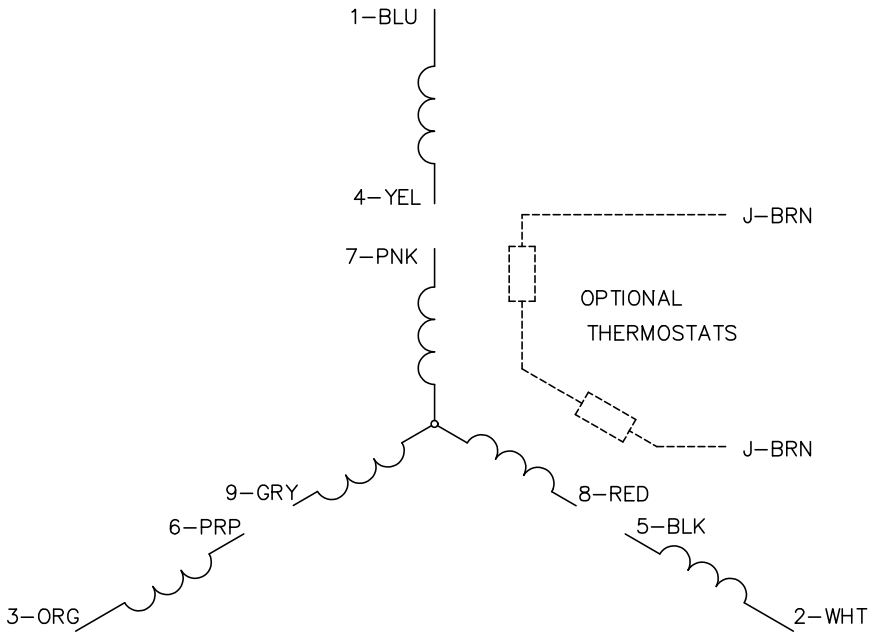
Typical performance - not guaranteed values.

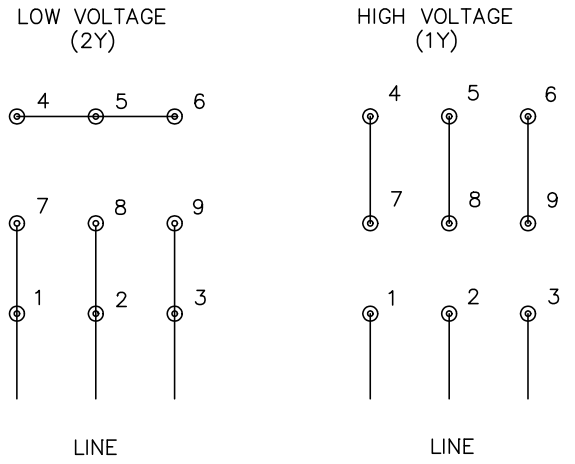
TORQUES(LB-FT): PO=34.9 PU=34.8 LR=39.2 LRA=26




35LYE2679
510-526 = 13.29
527-533 = 14.16
534-544 = 15.53
3.75
2.50
2.25
7.19
DIA.
.19 KEY
1.38 LONG
Ø .8750
.8745
4 HOLES
3 W/PLUGS
(EACH END)
6 HOLES
.38 DIA.
4.00
2.25
5.00
.50
5.94
JM CLIPPER
SEAL
(EACH END)
FRONT END DETAIL
PULLEY END DETAIL
Ø6.61
LEAD HOLE
.75 N.P.T.
TOP
OF NP
5.79
4.70
6.81
3.50 +.00 -.06
2.75
2.75
3.25
6.50
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 - PKG11
REV: E
VERSION: 05
REVISED: 01:13:27 11/30/2018
TDR: 000001092572
MODEL NO. 35LYE2679
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HOR 143-5T TEFC M WD F3 ENCAP W/JM CLIP SEAL
SH 1 of 1
35LYE2679

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