ABB BALDOR RELIANCE

Customer information packet

WDM3558TP

2HP, 1710RPM, 3PH, 60HZ, 145T, 3528M, TEFC, F3
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	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	2.750 A @ 460.0 V
	5.500 A @ 230.0 V
	6.000 A @ 208.0 V
Design Code	D
Drip Cover	No Drip Cover
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	2.8 a

Part Detail

Revision	G
Type	AC
Mech. spec.	35E2679
Base	
Status	PRD/A
Elec. spec.	35WGG501
Layout	35LYE2679
Eff. date	01-15-2026
CD Diagram	CD0005
Poles	04
Leads	9#18 Y
Proprietary	False
Created date	07-05-2022

Insulation Class	F
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	3528M
Mounting Arrangement	F3
Number of Poles	4
Overall Length	14.16 IN
Power Factor	82
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
Shaft Slinger Indicator	Shaft Slinger
Speed	1710 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.	WDM3558TP										
SPEC.	35E2679G501G1										
HP	2										
VOLTS	230/460										
AMP	5.5/2.75										
RPM	1710										
FRAME	145T		**HZ**	60			**PH**	3			
SER.F.	1.15	**CODE**	H	**DES**	D	**CLASS**		H			
NEMA-NOM-EFF	82.5	**PF**	82								
RATING	40C AMB-CONT										
CC											
DE	6205		**ODE**	6203							
ENCL	TEFC	**SN**									
	SFA 6.2/3.1										

AC Induction Motor Performance Data
Record # 95046
Typical performance - not guaranteed values

Winding: 35WGG501-R001	**Type:** 3528M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			2	**Full Load Torque**	6.15 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			5.5/2.75	**Breakdown Torque**	20.4 LB-FT
R.P.M.			1710	**Pull-up Torque**	16 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	18 LB-FT
NEMA Design Code	D	**KVA Code**	H	**Starting Current**	17.8 A
Service Factor (S.F.)			1.15	**No-load Current**	1.36 A
NEMA Nom. Eff.	82.5	**Power Factor**	82	**Line-line Res. @ 25ºC**	10.1 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	65°C
S.F. Amps			6.2/3.1	**Temp. Rise @ S.F. Load**	81°C
				Locked-rotor Power Factor	61.5
				Rotor inertia	0.202 lb-ft²

Load Characteristics 460 V, 60 Hz, 2 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	40	62	74	81	85	87	84
Efficiency	80.2	85.8	86	84.4	81.9	78.7	82.4
Speed	1781	1761	1738	1712	1681	1644	1682
Line amperes	1.47	1.77	2.21	2.74	3.37	4.12	3.12

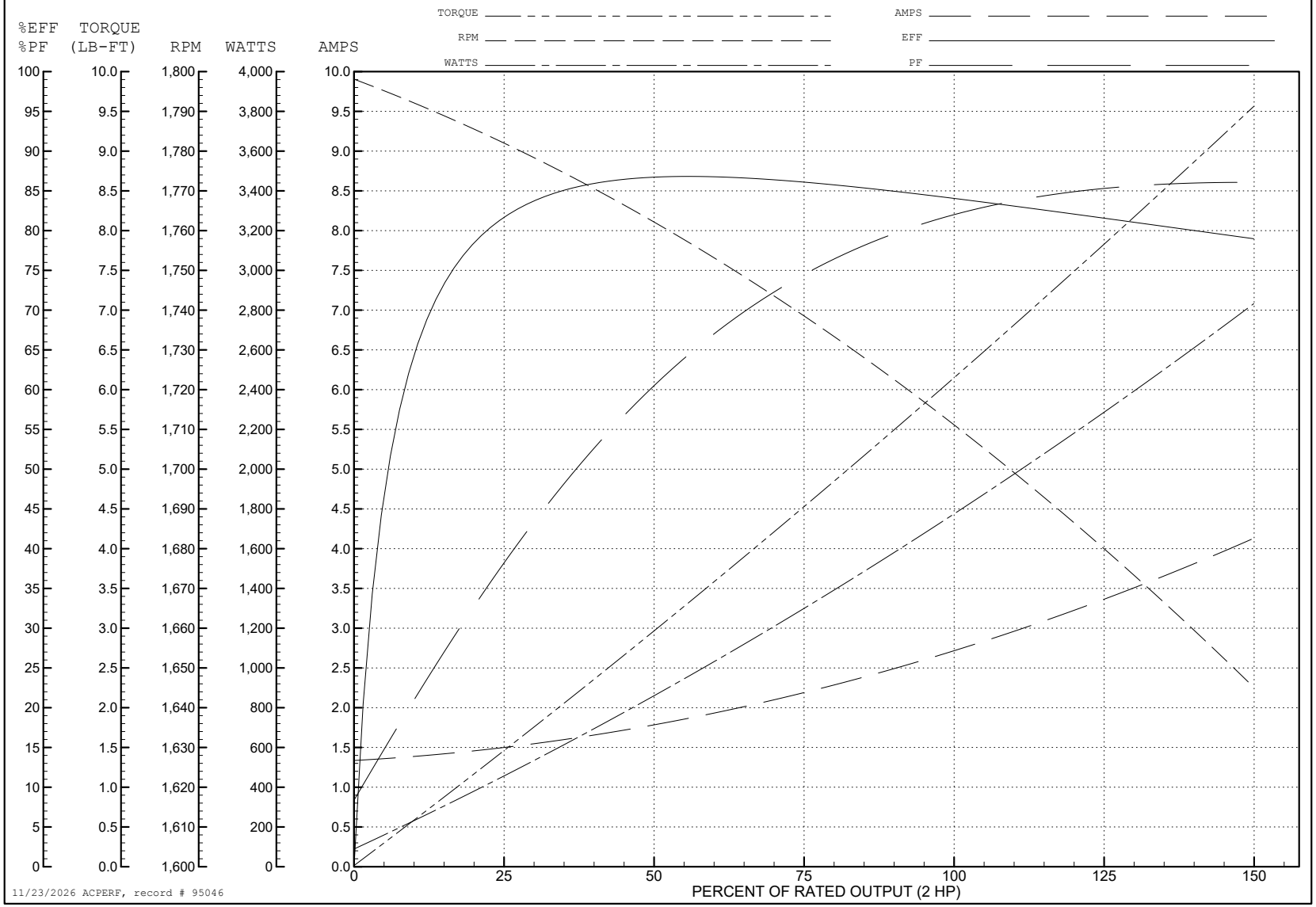
ABB Motors and Mechanical Inc.

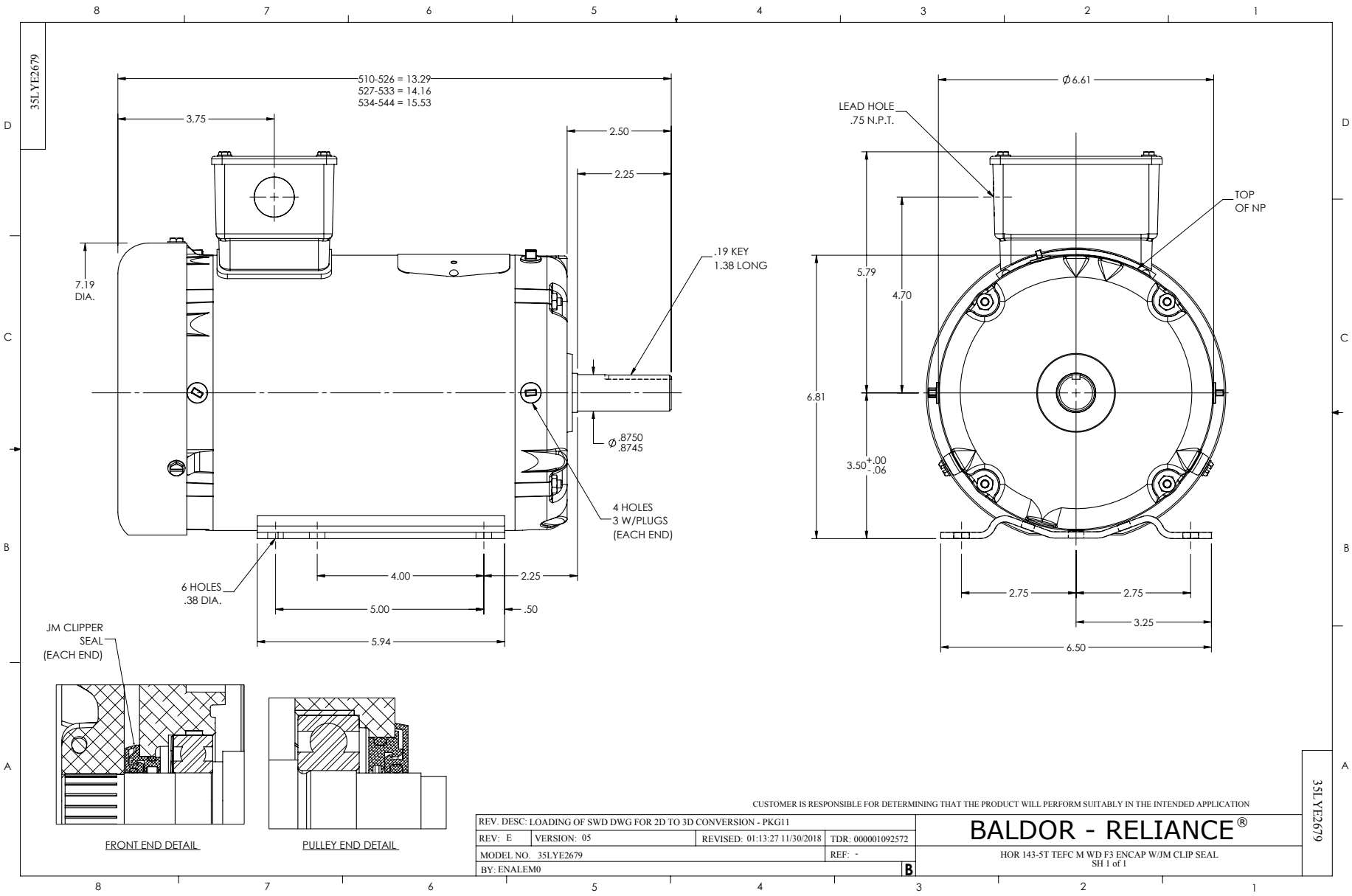
WINDING # 35WGG501

2 HP 3 PH 60 HZ 1710 RPM 460 V 3528M

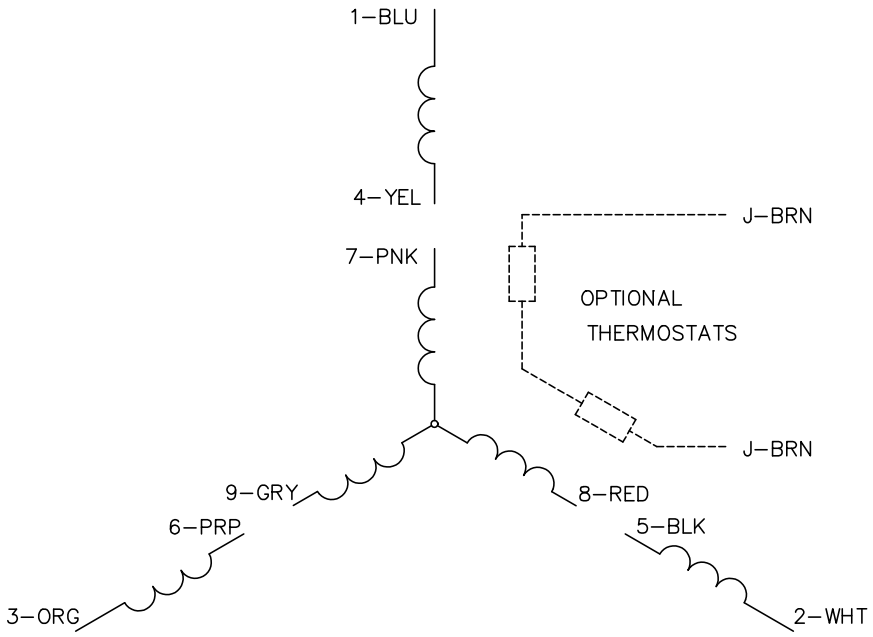
Typical performance - not guaranteed values.

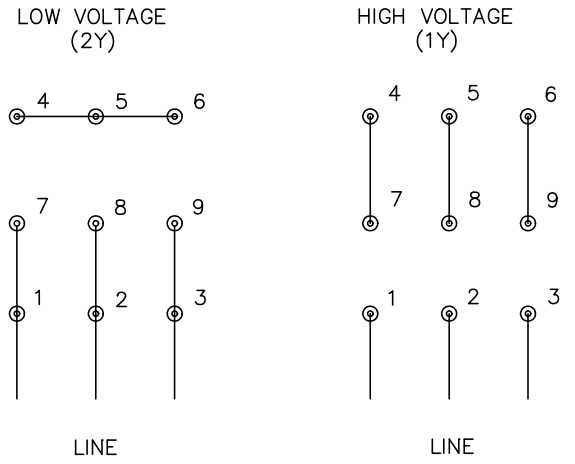
TORQUES(LB-FT): PO=20.4 PU=16 LR=18 LRA=17.8




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