ABB BALDOR RELIANCE

Customer information packet

VNEDM3554

1.5HP, 1770RPM, 3PH, 60HZ, 56C, 3530M, TENV, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TENV
Frame	56C
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	460.0 V @ 60 HZ
	230.0 V @ 60 HZ
Agency Approvals	CCSA US
	CSA EEV
	CURUSEEV
	NEMA PREMIUM
	NEMA PREMIUM (OLD LOGO)
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Constant Torque Speed Range	6
Current @ Voltage	4.600 A @ 230.0 V
	2.300 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	87.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK

Part Detail

Revision	F
Type	AC
Mech. spec.	35E4329
Base	
Status	PRD/A
Elec. spec.	35WGG178
Layout	35LYE4329
Eff. date	11-06-2026
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	01-10-2022

Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	2.3 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	M
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3530M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	12.06 IN
Power Factor	72
Product Family	Dirty Duty Plus
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	0.625 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

NP3504									
CAT NO	VNEDM3554								
SPEC.	35E4329G178G1			**ENCL**	TENV				
FRAME	56C	**HP**	1.5						
VOLTS	230/460								
FLA	4.6/2.3			**I.P.**	56				
RPM	1770	**RPM MAX**	2700						
HZ	60	**PH**	3	**CLASS**	F				
SER.F.	1.15	**DES**	B	**CC**	010A				
NEMA-NOM-EFF	87.5								
RATING	40C AMB-CONT								
DE BRG	6205	**ODE BRG**	6203						
GREASE	POLYREX EM								
INV.TYPE		**C HP FR**	60	**C HP TO**	90				
CT HZ FROM	6	**CT HZ TO**	60	**VT HZ FROM**	6	**VT HZ TO**	60		
SER.NO									
	SFA 4.66/2.33								

AC Induction Motor Performance Data
Record # 82076
Typical performance - not guaranteed values

Winding: 35WGG178-R001	**Type:** 3530M	**Enclosure:** TENV

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			1.5	**Full Load Torque**	4.46 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			4.2/2.1	**Breakdown Torque**	21 LB-FT
R.P.M.			1770	**Pull-up Torque**	12.2 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	14.8 LB-FT
NEMA Design Code	B	**KVA Code**	M	**Starting Current**	21.4 A
Service Factor (S.F.)			1.15	**No-load Current**	1.3 A
NEMA Nom. Eff.	86.5	**Power Factor**	76	**Line-line Res. @ 25ºC**	10.1 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	80°C
S.F. Amps				**Temp. Rise @ S.F. Load**	95°C
				Locked-rotor Power Factor	55.2
				Rotor inertia	0.217 LB-FT2

Load Characteristics 460 V, 60 Hz, 1.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	29	49	63	72	78	82	79
Efficiency	78.6	86.1	87.9	88.2	87.5	86.4	87.9
Speed	1792	1785	1778	1770	1762	1753	1764
Line amperes	1.36	1.53	1.79	2.11	2.47	2.9	2.33

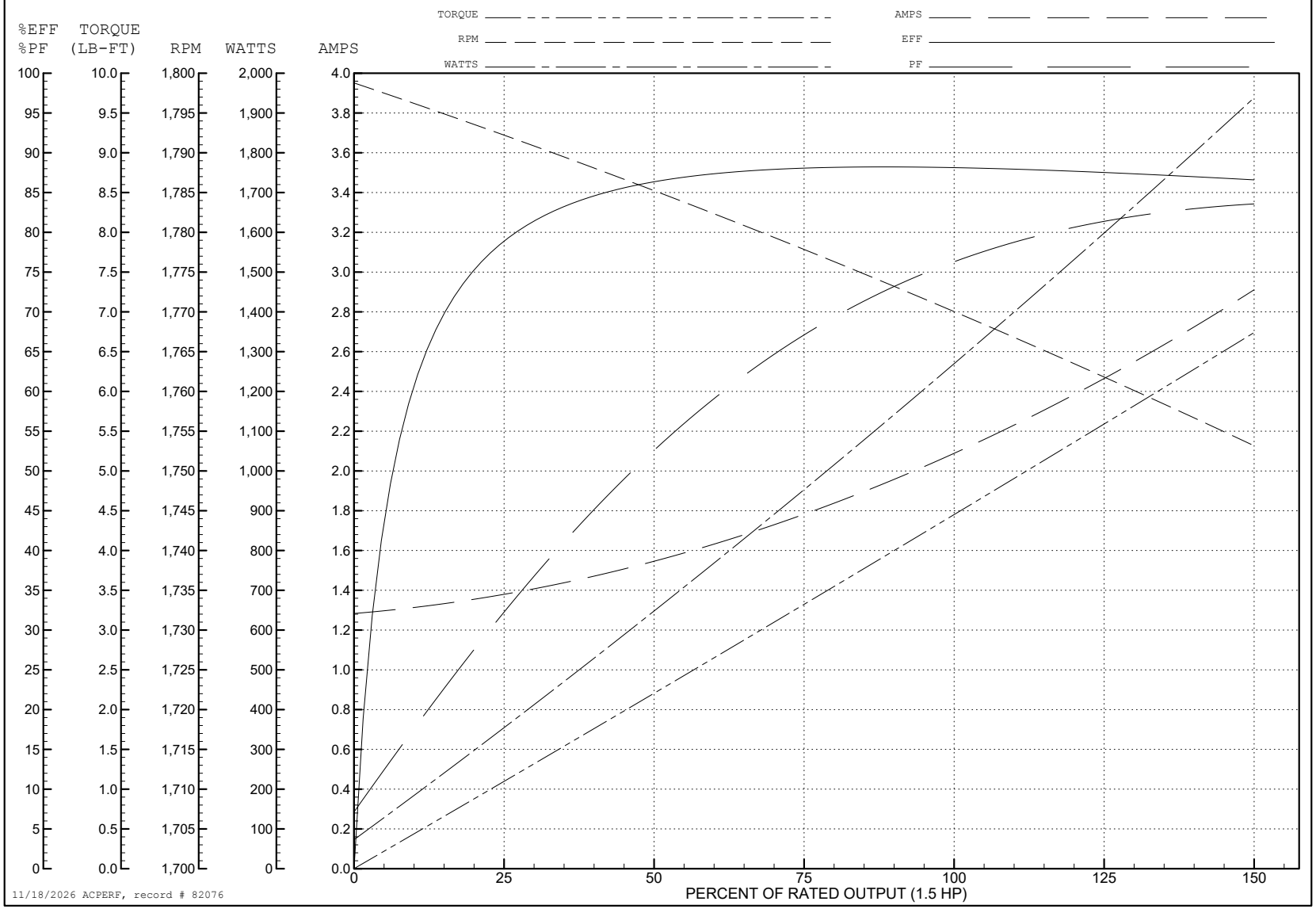
ABB Motors and Mechanical Inc.

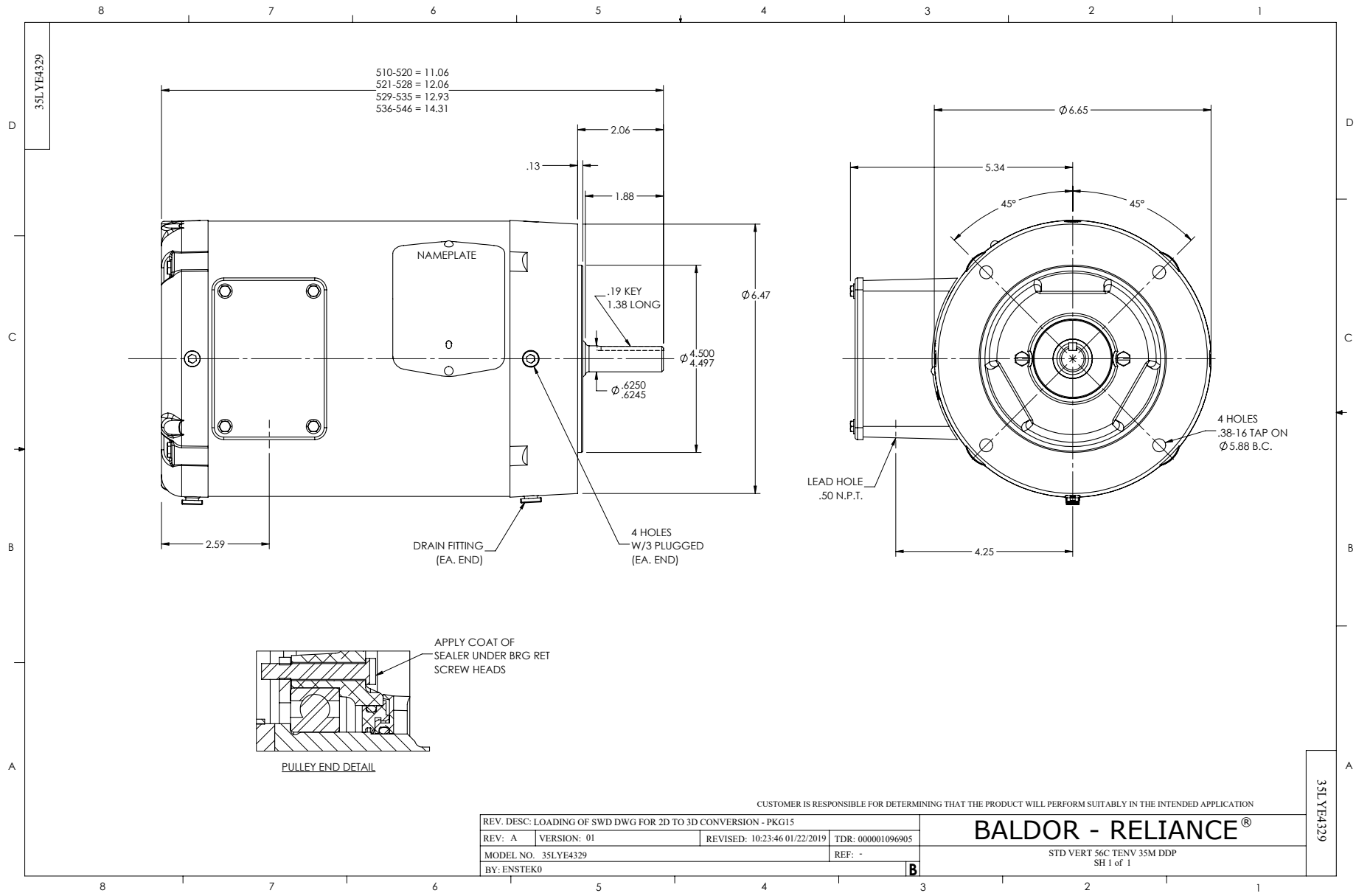
WINDING # 35WGG178

1.5 HP 3 PH 60 HZ 1770 RPM 460 V 3530M

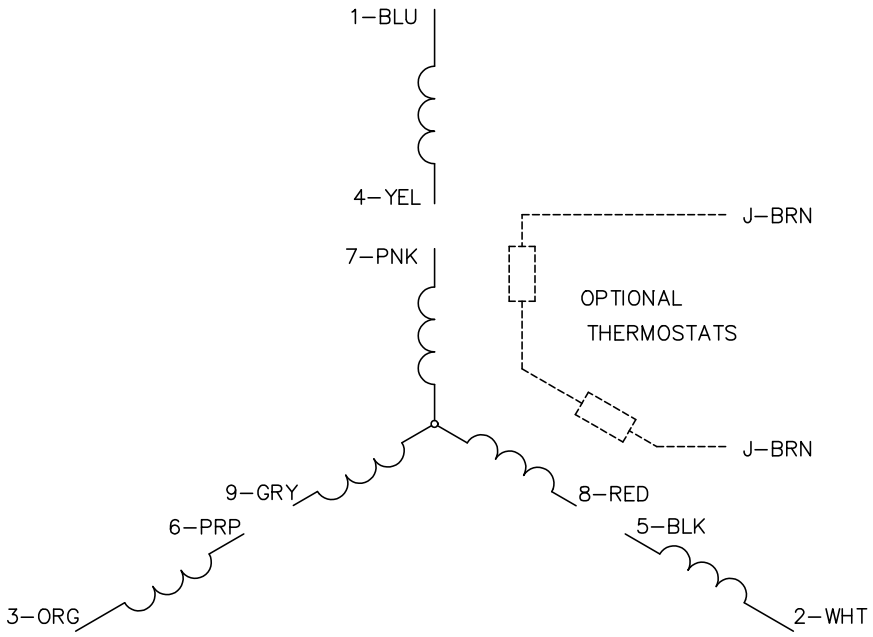
Typical performance - not guaranteed values.

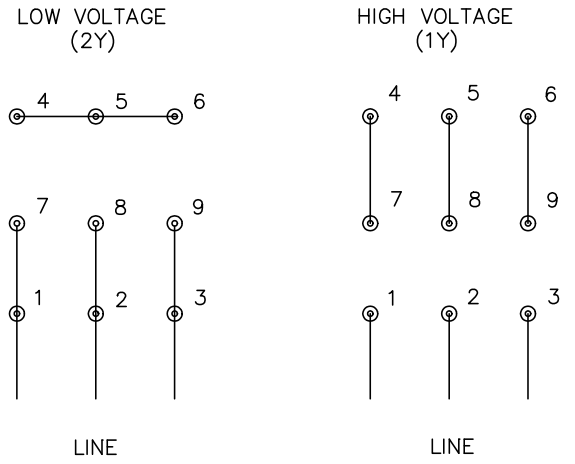
TORQUES(LB-FT): PO=21 PU=12.2 LR=14.8 LRA=21.4




35LYE4329
510-520 = 11.06
521-528 = 12.06
529-535 = 12.93
536-546 = 14.31
2.06
.13
1.88
NAMEPLATE
.19 KEY
1.38 LONG
Ø6.47
Ø4.500
4.497
Ø.6250
.6245
2.59
DRAIN FITTING
(EA. END)
4 HOLES
W/3 PLUGGED
(EA. END)
Ø6.65
5.34
45°
45°
4 HOLES
.38-16 TAP ON
Ø5.88 B.C.
LEAD HOLE
.50 N.P.T.
4.25
APPLY COAT OF
SEALER UNDER BRG RET
SCREW HEADS
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 - PKG15
REV: A
VERSION: 01
REVISED: 10:23:46 01/22/2019
TDR: 000001096905
MODEL NO. 35LYE4329
REF: -
BY: ENSTEK0
B
BALDOR - RELIANCE®
STD VERT 56C TENV 35M DDP
SH 1 of 1
35LYE4329

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