



Customer information packet

VNEDM3554

1.5HP, 1755RPM, 3PH, 60HZ, 56C, 3534M, TENV, F1

Class - None

Division - Not Applicable

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	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA EEV NEMA PREMIUM NEMA_PREMIUM UR CCSA US
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Constant Torque Speed Range	6
Current @ Voltage	4.200 A @ 230.0 V 2.100 A @ 460.0 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

Part detail

Revision	H
Type	AC
Mech. spec.	35E4329
Base	
Status	NLA/A
Elec. spec.	35WGM613
Layout	35LYE4329
Eff. date	01-18-2023
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	04-21-2016

Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	2.1 a
Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	NONE
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3534M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	12.93 IN
Power Factor	76
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 Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1755 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

NP3504E									
CAT NO	VNEDM3554								
SPEC.	35E4329M613G1			ENCL	TENV				
FRAME	56C	HP	1.5						
VOLTS	230/460								
FLA	4.2/2.1		I.P.	56					
RPM	1755	RPM MAX	2700						
HZ	60	PH	3	CLASS	F				
SER.F.	1.15	DES	B	CC	010A				
NEMA-NOM-EFF	86.5								
RATING	40C AMB-CONT								
DE BRG	6205	ODE BRG	6203						
GREASE	POLYREX EM								
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	50C AT 1.0 SF								

AC Induction Motor Performance Data

Record # 56528

Typical performance - not guaranteed values

Winding: 35WGM613-R025		Type: 3534M	Enclosure: TENV
Nameplate Data		460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	1.5	Full Load Torque	4.49 LB-FT
Volts	230/460	Start Configuration	direct on line
Full Load Amps	4.2/2.1	Breakdown Torque	19.9 LB-FT
R.P.M.	1755	Pull-up Torque	10.98 LB-FT
Hz	60 Phase	Locked-rotor Torque	14.87 LB-FT
NEMA Design Code	B KVA Code	Starting Current	19.8 A
Service Factor (S.F.)	1.15	No-load Current	1.18 A
NEMA Nom. Eff.	86.5 Power Factor	Line-line Res. @ 25°C	8.98 Ω
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	88°C
S.F. Amps		Temp. Rise @ S.F. Load	104°C
		Locked-rotor Power Factor	48.1
		Rotor inertia	0.201 LB-FT ²

Load Characteristics 460 V, 60 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	36	56	69	77	82	85	79
Efficiency	78.6	85.5	87.4	87.1	86.3	84.8	88.5
Speed	1794	1784	1772	1760	1747	1733	1757
Line amperes	1.28	1.48	1.76	2.1	2.5	2.94	2.3

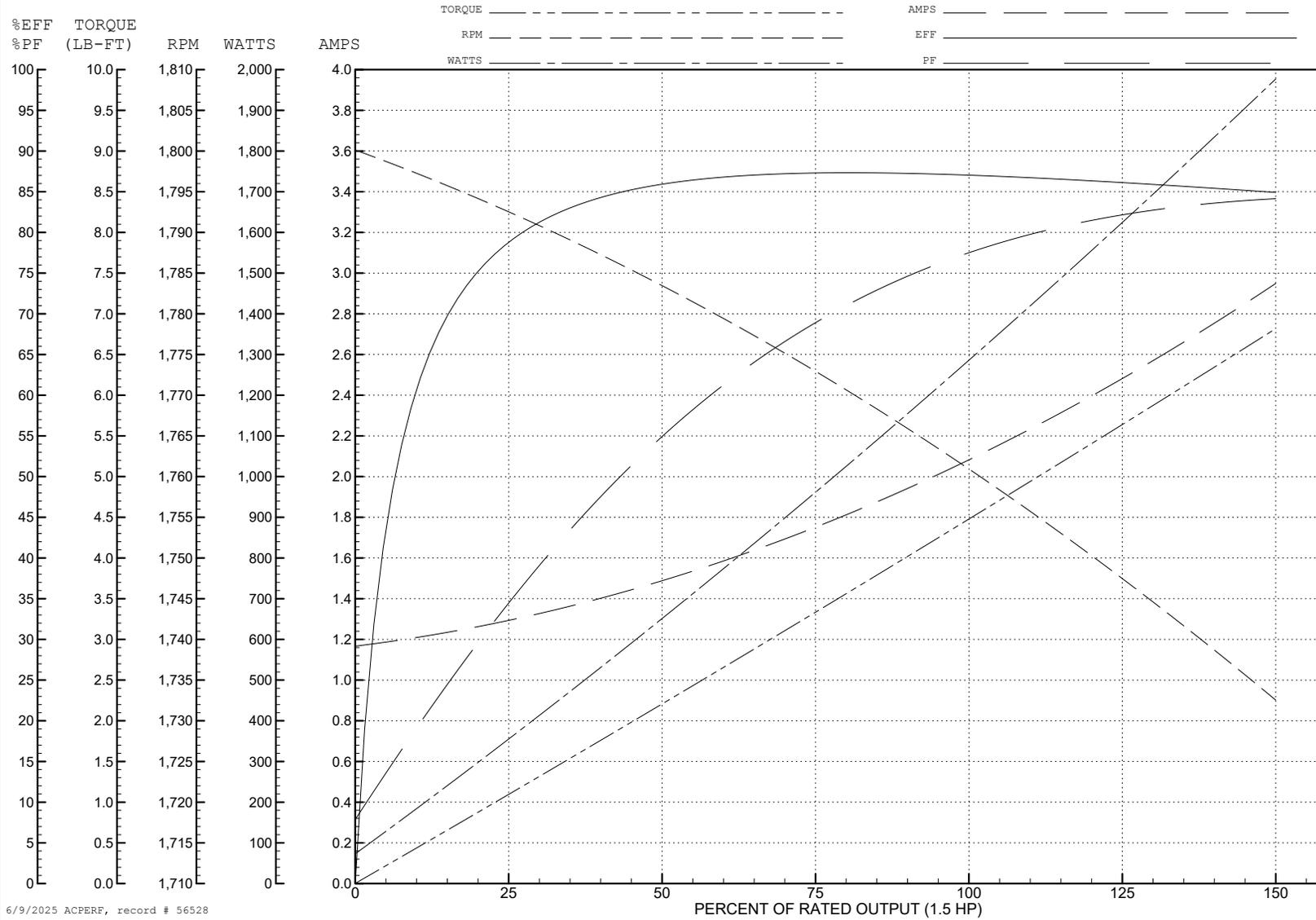
ABB Motors and Mechanical Inc.

WINDING # 35WGM613

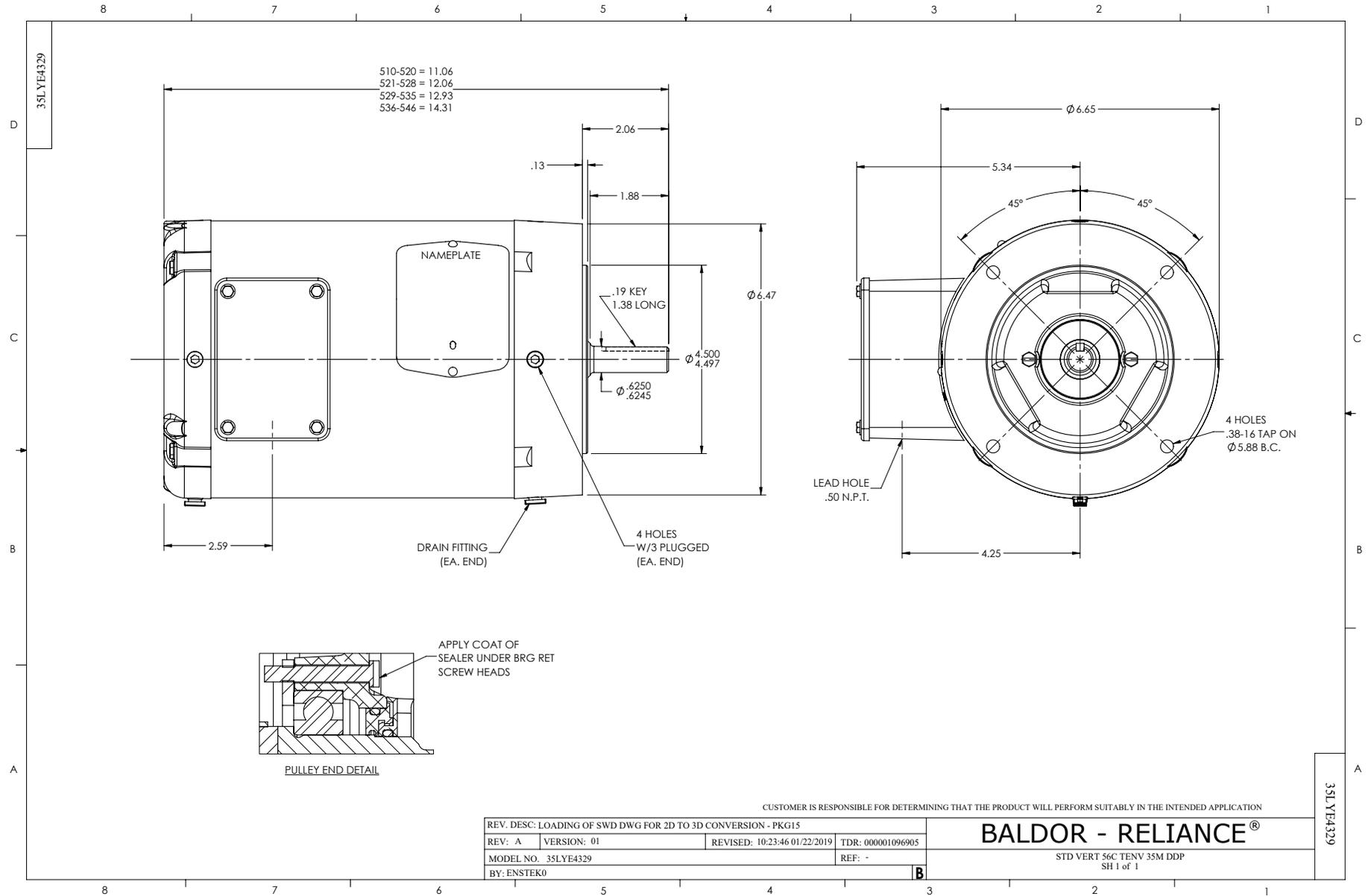
Typical performance - not guaranteed values.

1.5 HP 3 PH 60 HZ 1755 RPM 460 V 3534M

TORQUES (LB-FT): PO=19.9 PU=10.98 LR=14.87 LRA=19.8



6/9/2025 ACPERF, record # 56528



CD0005



LOW VOLTAGE
(2Y)



LINE

HIGH VOLTAGE
(1Y)



LINE

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			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
S00000		FILE: AAA00005140	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS