ABB BALDOR RELIANCE

Customer information packet

KENM3454

.25HP, 1785RPM, 3PH, 60HZ, 56C, 3512M, GP, N
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	.250 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	C UR US
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
Current @ Voltage	.800 A @ 460.0 V
	1.600 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	70.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	0.8 a
Insulation Class	F
Inverter Code	Inverter Duty

Part Detail

Revision	E
Type	AC
Mech. spec.	35E010
Base	
Status	PRD/A
Elec. spec.	35WGG155
Layout	35LYE010
Eff. date	01-05-2026
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	05-01-2023

KVA Code	U
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3512M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	11.06 IN
Power Factor	42
Product Family	General Purpose
Pulley End Bearing Type	Ball
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	1785 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

NP2116L											
CAT.NO.	KENM3454										
SPEC.	35E010G155G4										
HP	.25										
VOLTS	230/460										
AMP	1.6/.8										
RPM	1785										
FRAME	56C		**HZ**	60		**PH**	3				
SER.F.	1.15	**CODE**	U	**DES**	B	**CL**	F				
NEMA-NOM-EFF	70	**PF**	42								
RATING	40C AMB-CONT										
CC											
DE	6205	**ODE**	6203								
ENCL	TENV	**SN**									
	SFA 1.61/.81										

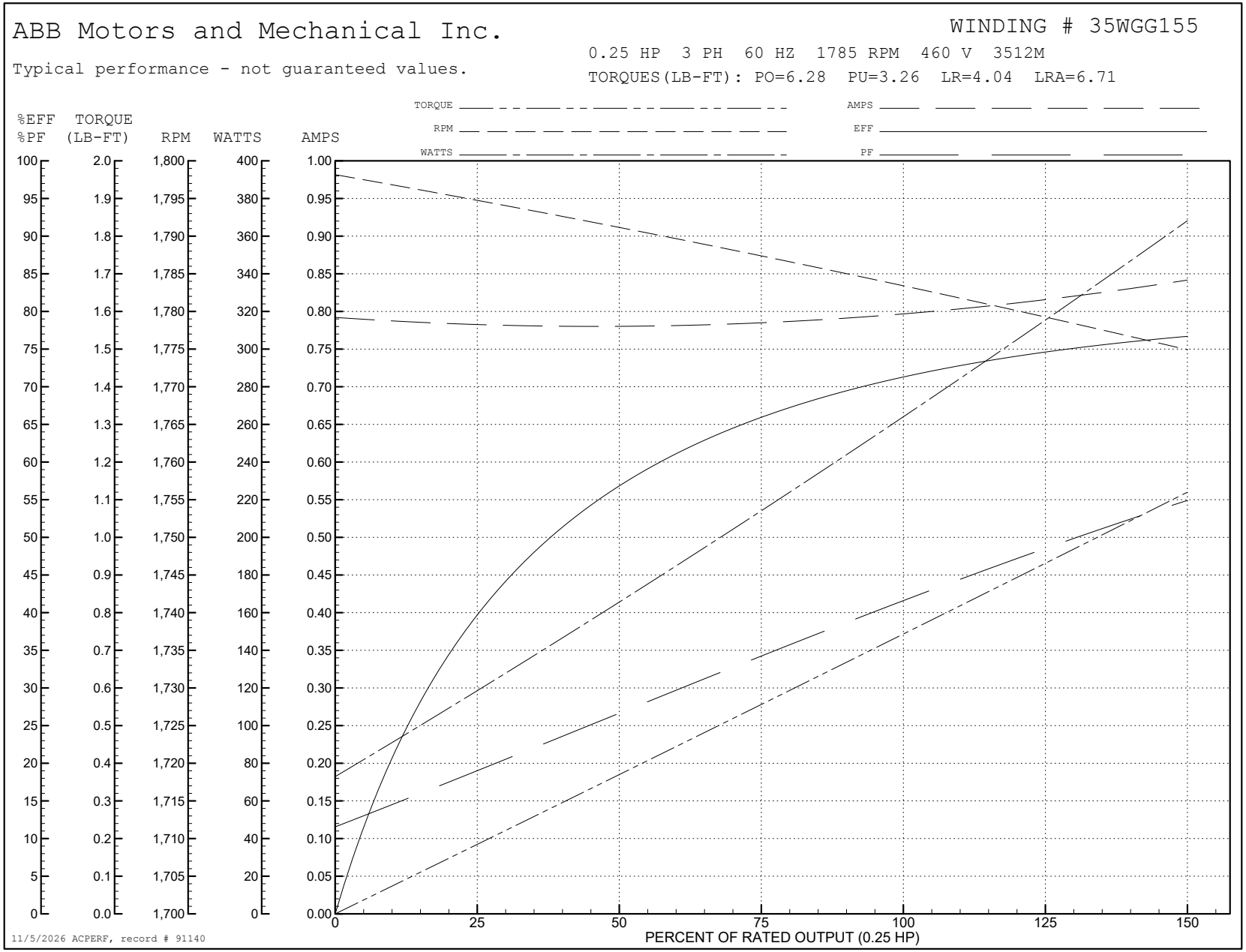
AC Induction Motor Performance Data
Record # 91140
Typical performance - not guaranteed values

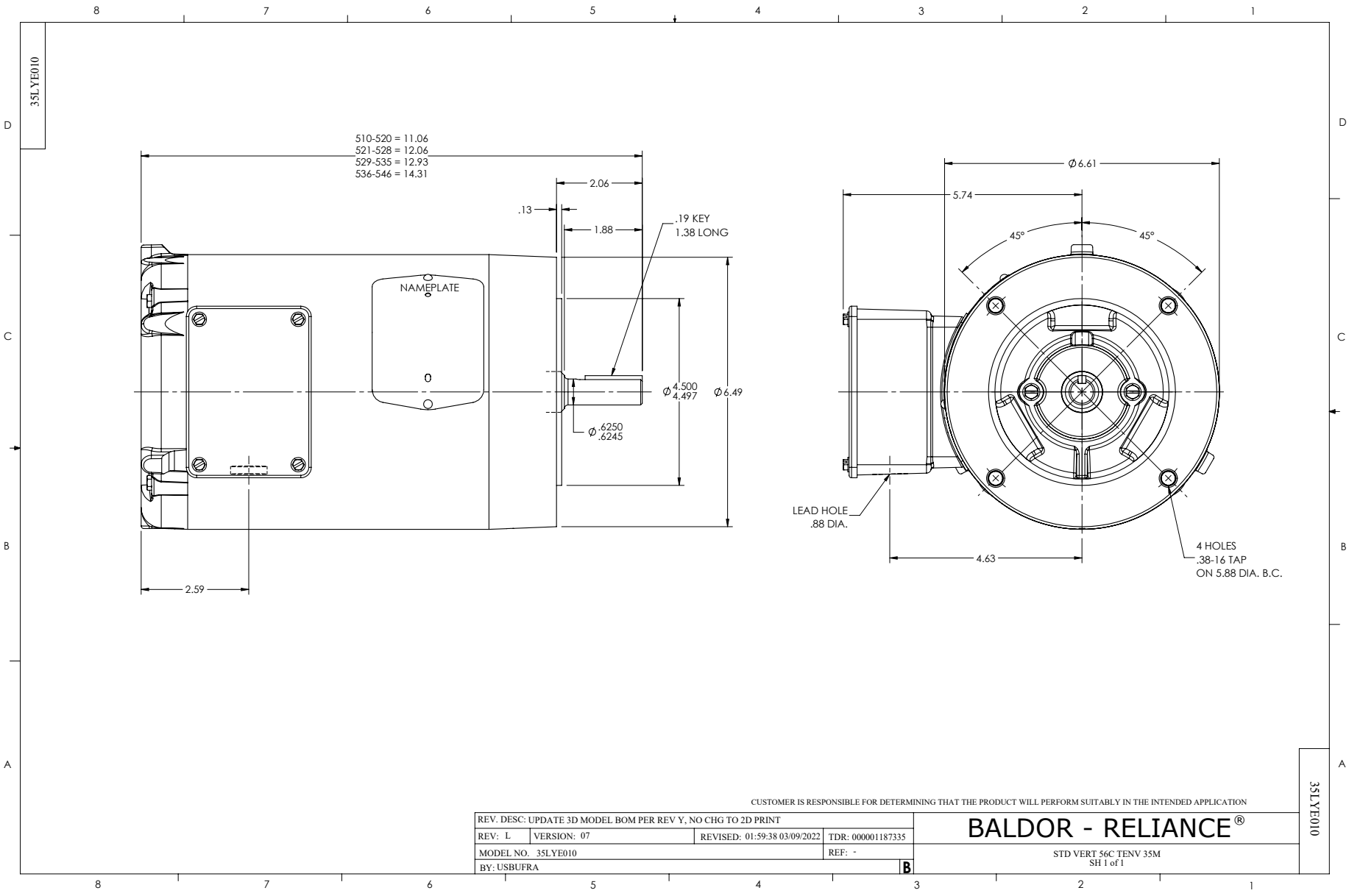
Winding: 35WGG155-R061	**Type:** 3512M	**Enclosure:** TENV

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			.25	**Full Load Torque**	0.739 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			1.6/.8	**Breakdown Torque**	6.28 LB-FT
R.P.M.			1785	**Pull-up Torque**	3.26 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	4.04 LB-FT
NEMA Design Code	B	**KVA Code**	U	**Starting Current**	6.71 A
Service Factor (S.F.)			1.15	**No-load Current**	0.792 A
NEMA Nom. Eff.	70	**Power Factor**	42	**Line-line Res. @ 25ºC**	43.2 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	46°C
S.F. Amps				**Temp. Rise @ S.F. Load**	48°C
				Locked-rotor Power Factor	70.7767
				Rotor inertia	0.0866 lb-ft²

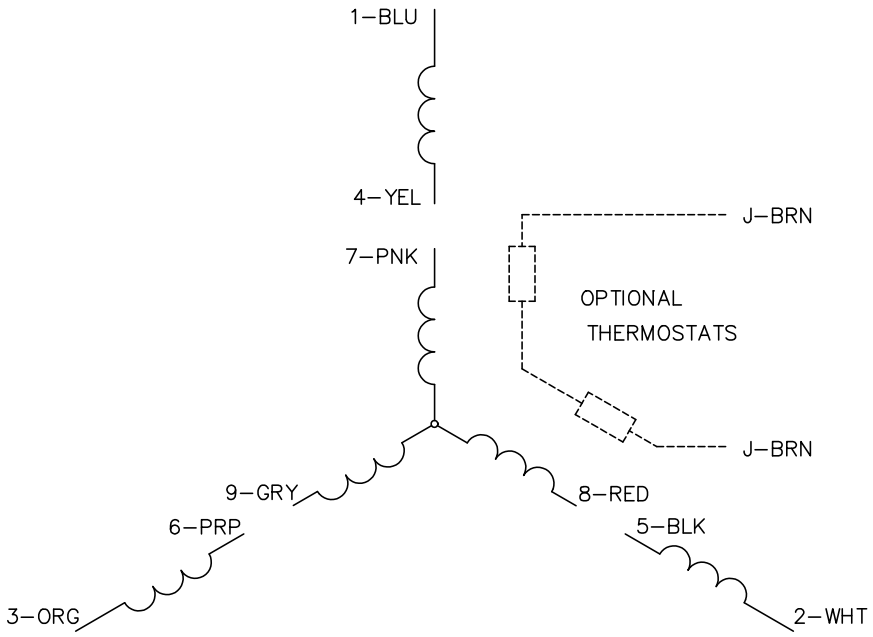
Load Characteristics 460 V, 60 Hz, 0.25 HP

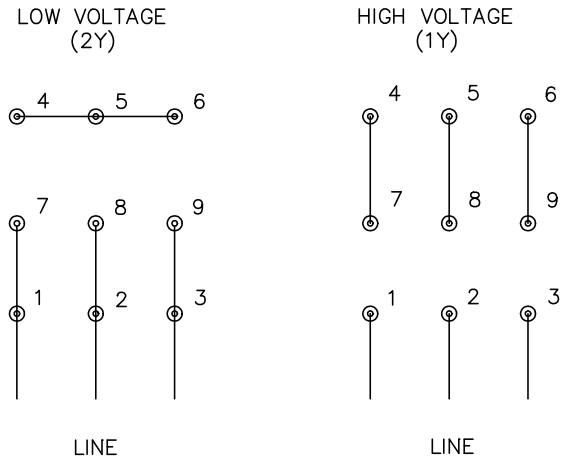
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	19	27	34	41	49	55	46
Efficiency	40.8	57	65.8	71.2	74.5	76.7	73.2
Speed	1795	1791	1787	1784	1779	1775	1781
Line amperes	0.782	0.78	0.787	0.796	0.813	0.843	0.806


ABB Motors and Mechanical Inc.
WINDING # 35WGG155
Typical performance - not guaranteed values.
0.25 HP 3 PH 60 HZ 1785 RPM 460 V 3512M
TORQUES(LB-FT): PO=6.28 PU=3.26 LR=4.04 LRA=6.71
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
100 95 90 85 80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0
2.0 1.9 1.8 1.7 1.6 1.5 1.4 1.3 1.2 1.1 1.0 0.9 0.8 0.7 0.6 0.5 0.4 0.3 0.2 0.1 0.0
1,800 1,795 1,790 1,785 1,780 1,775 1,770 1,765 1,760 1,755 1,750 1,745 1,740 1,735 1,730 1,725 1,720 1,715 1,710 1,705 1,700
400 380 360 340 320 300 280 260 240 220 200 180 160 140 120 100 80 60 40 20 0
1.00 0.95 0.90 0.85 0.80 0.75 0.70 0.65 0.60 0.55 0.50 0.45 0.40 0.35 0.30 0.25 0.20 0.15 0.10 0.05 0.00
0 25 50 75 100 125 150
PERCENT OF RATED OUTPUT (0.25 HP)
11/5/2026 ACPERF, record # 91140


35LYE010
510-520 = 11.06
521-528 = 12.06
529-535 = 12.93
536-546 = 14.31
2.06
.13
1.88
.19 KEY
1.38 LONG
NAMEPLATE
Ø 4.500
4.497
Ø 6.49
Ø .6250
.6245
2.59
Ø 6.61
5.74
45°
45°
LEAD HOLE
.88 DIA.
4.63
4 HOLES
.38-16 TAP
ON 5.88 DIA. B.C.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: UPDATE 3D MODEL BOM PER REV Y, NO CHG TO 2D PRINT
REV: L
VERSION: 07
REVISED: 01:59:38 03/09/2022
TDR: 000001187335
MODEL NO. 35LYE010
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
STD VERT 56C TENV 35M
SH 1 of 1
35LYE010

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