Customer information packet

VNM3541

.75HP, 3480RPM, 3PH, 60HZ, 56C, 3520M, TENV, F1
Class - None
Division - Not Applicable

Copyright © All product information within this document is subject to ABB Motors and Mechanical Inc. copyright © protection, unless otherwise noted.
11/12/2026 8:57:37 PM

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	.750 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	230.0 V @ 60 HZ
	208.0 V @ 60 HZ
Agency Approvals	C UR US
	CURUS
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	2.200 A @ 208.0 V
	2.000 A @ 230.0 V
	1.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	84.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	Y
Type	AC
Mech. spec.	35E010
Base	
Status	PRD/A
Elec. spec.	35WGR090
Layout	35LYE010
Eff. date	01-05-2026
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	01-08-2008

Heater Indicator	No Heater
High Voltage Full Load Amps	1.0 a
Insulation Class	H
Inverter Code	Inverter Ready
KVA Code	N
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3520M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	11.06 IN
Power Factor	82
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.25
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	3480 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

NP1256L											
CAT.NO.	VNM3541										
SPEC.	35E010R090G2										
HP	.75										
VOLTS	208-230/460										
AMP	2.2-2/1										
RPM	3480										
FRAME	56C		**HZ**	60			**PH**	3			
SER.F.	1.25	**CODE**	N	**DES**	B	**CLASS**		H			
NEMA-NOM-EFF	84	**PF**	82								
RATING	40C AMB-CONT										
CC											
DE	6205		**ODE**	6203							
ENCL	TENV	**SN**									
	SFA 2.6-2.4/1.2										

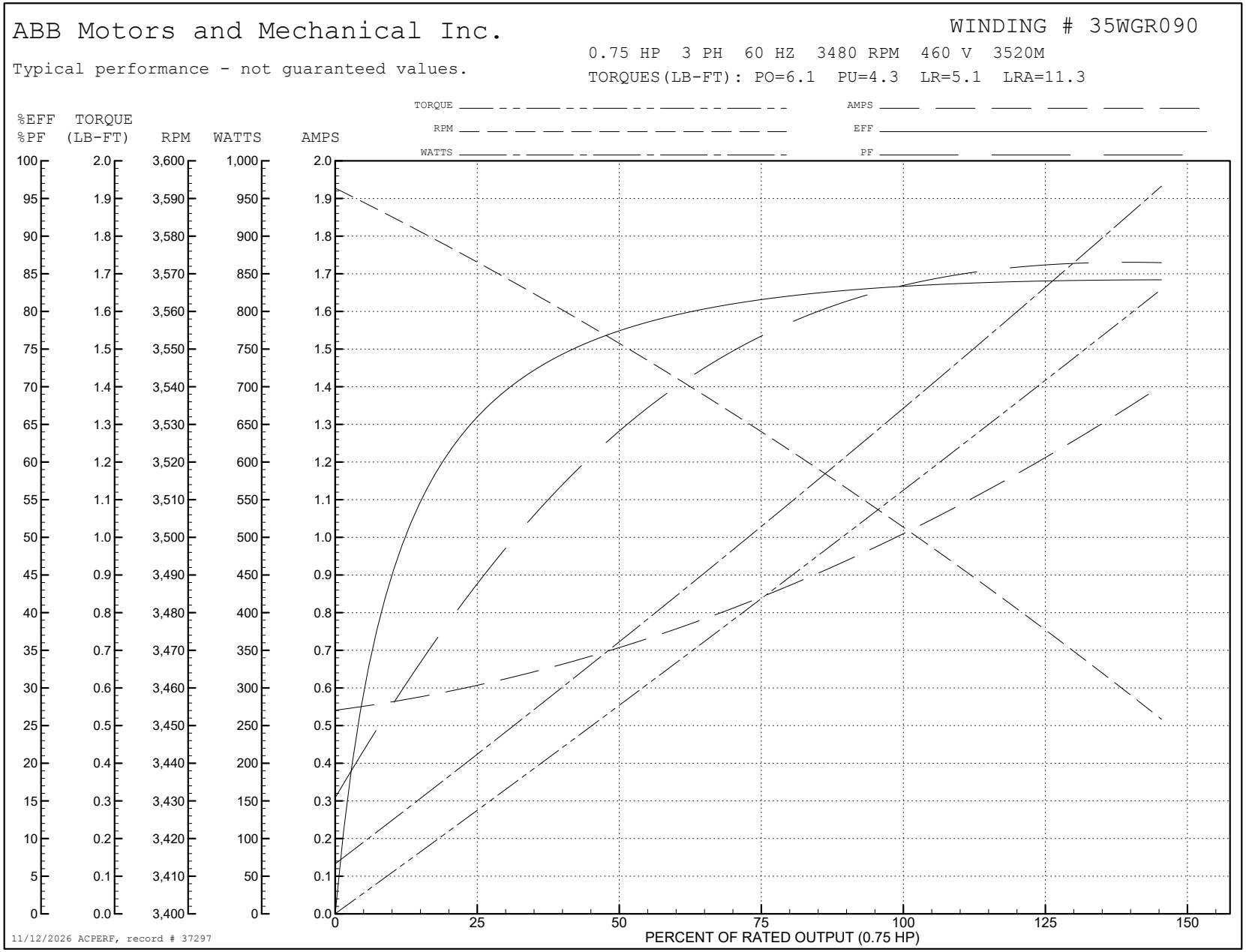
AC Induction Motor Performance Data
Record # 37297
Typical performance - not guaranteed values

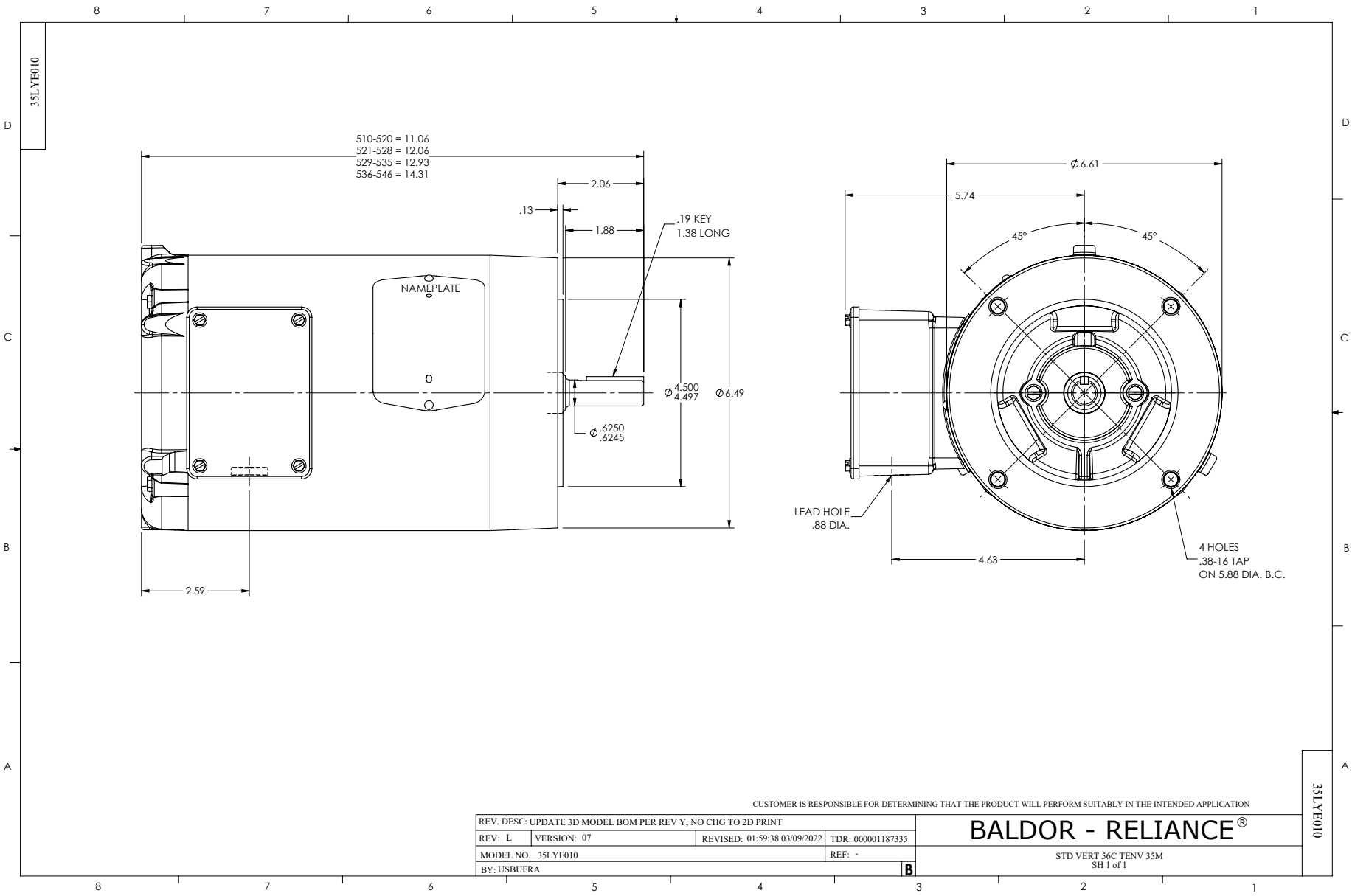
Winding: 35WGR090-R016	**Type:** 3520M	**Enclosure:** TENV

Nameplate Data			**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)		.75	**Full Load Torque**	1.12 LB-FT
Volts		208-230/460	**Start Configuration**	direct on line
Full Load Amps		2.2-2/1	**Breakdown Torque**	6.1 LB-FT
R.P.M.		3480	**Pull-up Torque**	4.3 LB-FT
Hz	60 **Phase**	3	**Locked-rotor Torque**	5.1 LB-FT
NEMA Design Code	B **KVA Code**	N	**Starting Current**	11.3 A
Service Factor (S.F.)		1.25	**No-load Current**	0.545 A
NEMA Nom. Eff.	84 **Power Factor**	82	**Line-line Res. @ 25ºC**	15.4 Ω
Rating - Duty		40C AMB-CONT	**Temp. Rise @ Rated Load**	52°C
S.F. Amps		2.6-2.4/1.2	**Temp. Rise @ S.F. Load**	63°C
			Locked-rotor Power Factor	53
			Rotor inertia	0.0553 LB-FT2

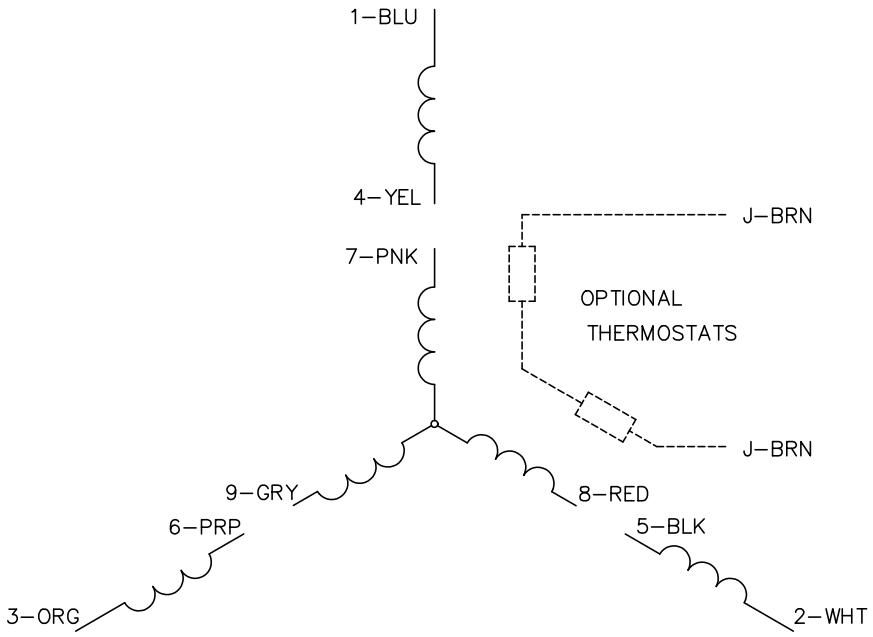
Load Characteristics 460 V, 60 Hz, 0.75 HP

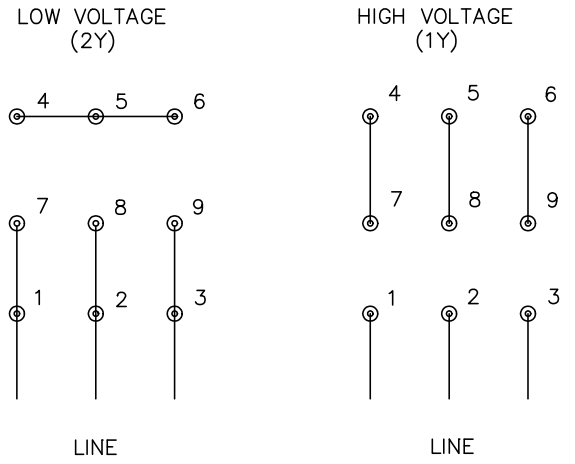
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	45	65	77	82	87	86	87
Efficiency	65	77.1	81.7	83.6	84.5	83.9	84.5
Speed	3573	3550	3528	3503	3478	3451	3478
Line amperes	0.599	0.71	0.848	1.02	1.18	1.41	1.18


ABB Motors and Mechanical Inc.
WINDING # 35WGR090
Typical performance - not guaranteed values.
0.75 HP 3 PH 60 HZ 3480 RPM 460 V 3520M
TORQUES(LB-FT): PO=6.1 PU=4.3 LR=5.1 LRA=11.3
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (0.75 HP)
11/12/2026 ACPERF, record # 37297


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