ABB BALDOR RELIANCE

Customer information packet

M1719

.75/.33HP, 1720/1160RPM, 3PH, 60HZ, 56, 3520M
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	56
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
	.330 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	UR
	CSA
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	1.260 A @ 460.0 V
Design Code	-
Drip Cover	No Drip Cover
Duty Rating	CONT
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	0.9 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	J

Part Detail

Revision	D
Type	AC
Mech. spec.	35A011
Base	
Status	PRD/A
Elec. spec.	35WGG354
Layout	35LYA011
Eff. date	06-24-2025
CD Diagram	CD0013
Poles	04/06
Leads	6#18
Proprietary	False
Created date	02-23-2023

Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	6 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3520M
Mounting Arrangement	F1
Number of Poles	4
	6
Overall Length	12.23 IN
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.25
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1160 rpm
	1720 rpm
Speed Code	2S-2W-VT
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.	M1719							
SPEC.	35A011G354							
HP	.75/.33							
VOLTS	460							
AMP	1.26/.89							
RPM	1720/1160							
FRAME	56	**HZ**	60			**PH**	3	
SER.F.	1.25	**CODE**	J	**DES**	-	**CLASS**	F	
NEMA-NOM-EFF		**PF**						
RATING	40C AMB-CONT							
CC								
DE	6205	**ODE**	6203					
ENCL	TEFC	**SN**						
	SFA 1.45/.93							

Accessories

Part number	Description	Multiplier
35-8762	C FACE KIT	A8
35EP1506A01SP	D-FLANGE KIT	A8

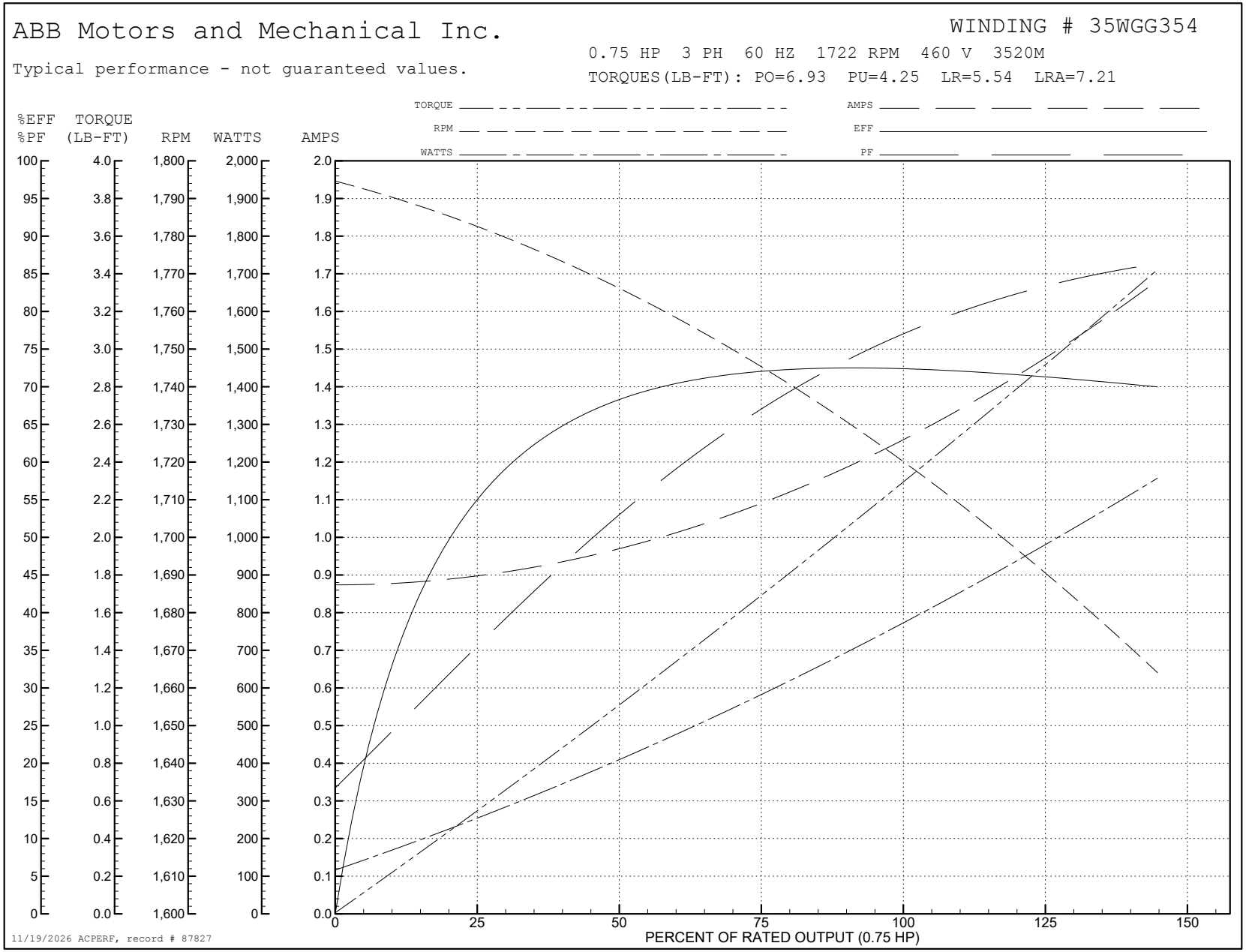
AC Induction Motor Performance Data
Record # 87827
Preliminary Data Sheet

Winding: 35WGG354-R001	**Type:** 3520M	**Enclosure:** TEFC

Nameplate Data			**460 V, 60 Hz: High Speed Connection**	
Rated Output (HP)		.75/.33	**Full Load Torque**	2.29 LB-FT
Volts		460	**Start Configuration**	direct on line
Full Load Amps		1.26/.89	**Breakdown Torque**	6.93 LB-FT
R.P.M.		1720/1160	**Pull-up Torque**	4.25 LB-FT
Hz	60 **Phase**	3	**Locked-rotor Torque**	5.54 LB-FT
NEMA Design Code	- **KVA Code**	J	**Starting Current**	7.21 A
Service Factor (S.F.)		1.25	**No-load Current**	0.865 A
NEMA Nom. Eff.	0 **Power Factor**	0	**Line-line Res. @ 25ºC**	44.1 Ω
Rating - Duty		40C AMB-CONT	**Temp. Rise @ Rated Load**	60°C
S.F. Amps		1.45/.93	**Temp. Rise @ S.F. Load**	77°C
			Locked-rotor Power Factor	89.5
			Rotor inertia	0.144 lb-ft²

Load Characteristics 460 V, 60 Hz, 0.75 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	37	54	69	76	83	87	83
Efficiency	54.3	67.9	71.9	73	72	69.5	72
Speed	1781	1763	1744	1722	1695	1662	1695
Line amperes	0.907	0.994	1.08	1.26	1.45	1.69	1.45


ABB Motors and Mechanical Inc.
WINDING # 35WGG354
0.75 HP 3 PH 60 HZ 1722 RPM 460 V 3520M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=6.93 PU=4.25 LR=5.54 LRA=7.21
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (0.75 HP)
11/19/2026 ACPERF, record # 87827

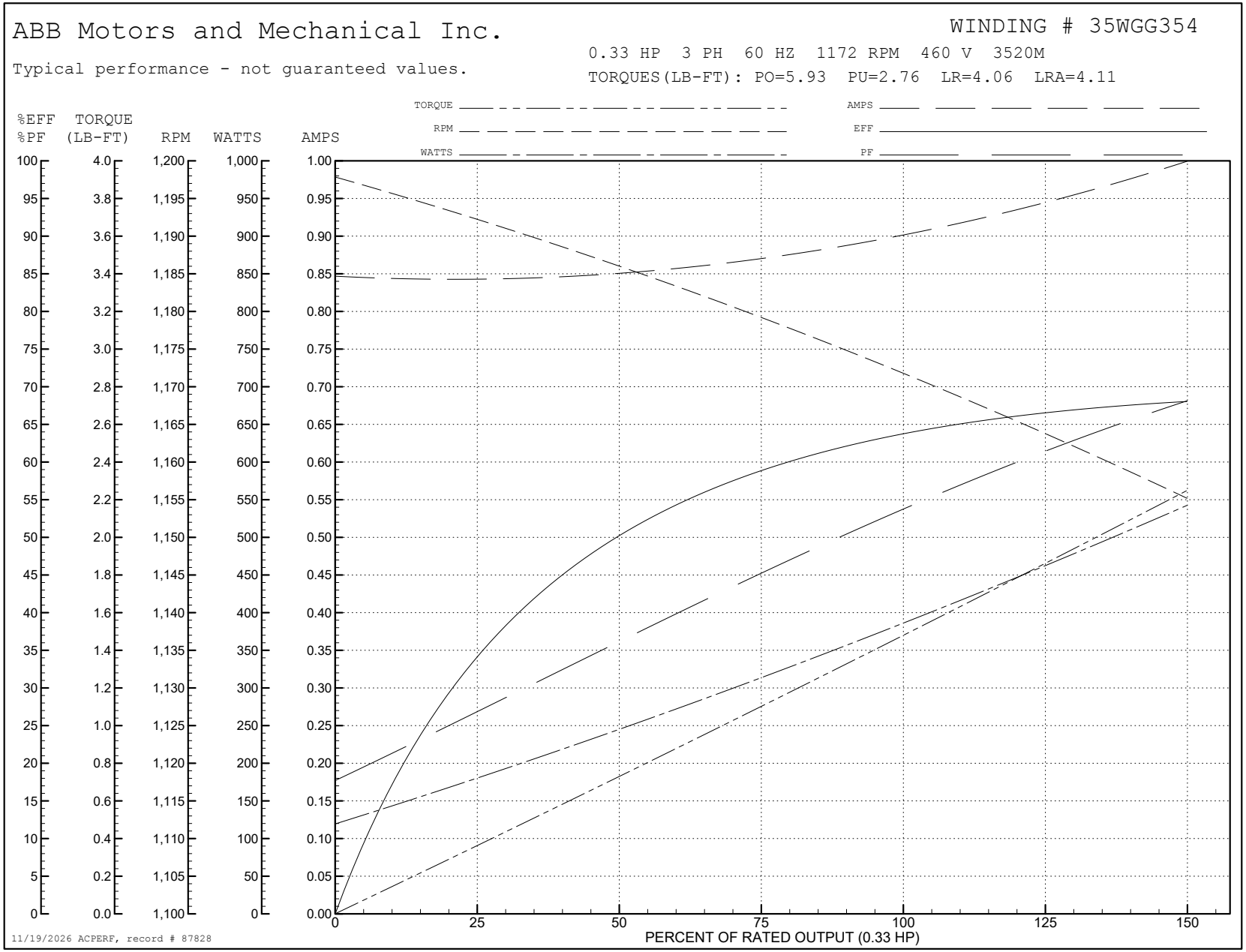
AC Induction Motor Performance Data
Record # 87828
Preliminary Data Sheet

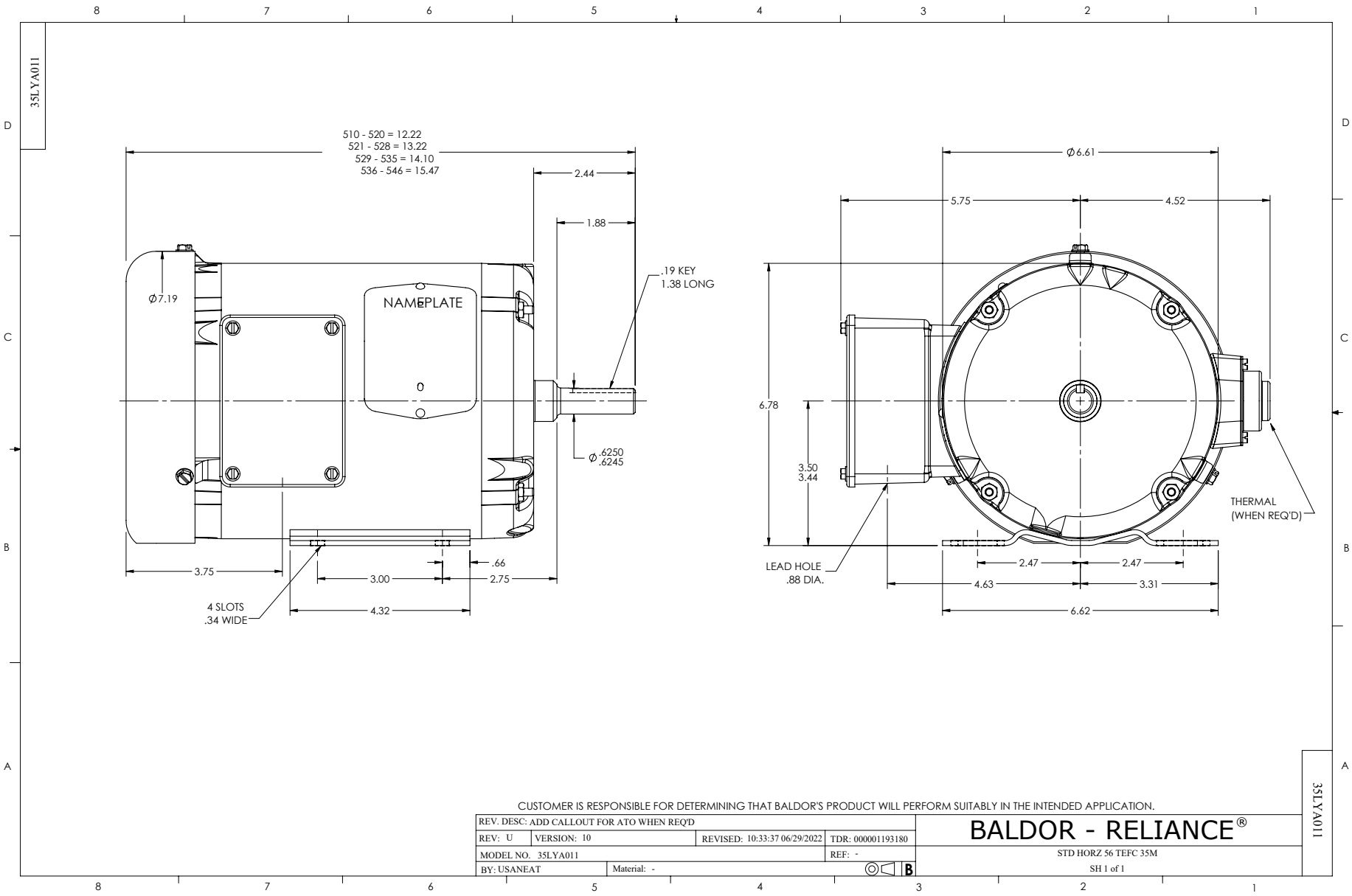
Winding: 35WGG354-R001	**Type:** 3520M	**Enclosure:** TEFC

Nameplate Data			**460 V, 60 Hz: Low Speed Connection**	
Rated Output (HP)		.75/.33	**Full Load Torque**	1.48 LB-FT
Volts		460	**Start Configuration**	direct on line
Full Load Amps		1.26/.89	**Breakdown Torque**	5.93 LB-FT
R.P.M.		1720/1160	**Pull-up Torque**	2.76 LB-FT
Hz	60 **Phase**	3	**Locked-rotor Torque**	4.06 LB-FT
NEMA Design Code	- **KVA Code**	J	**Starting Current**	4.11 A
Service Factor (S.F.)		1.25	**No-load Current**	0.846 A
NEMA Nom. Eff.	0 **Power Factor**	0	**Line-line Res. @ 25ºC**	81.1 Ω
Rating - Duty		40C AMB-CONT	**Temp. Rise @ Rated Load**	
S.F. Amps		1.45/.93	**Temp. Rise @ S.F. Load**	
			Locked-rotor Power Factor	89.5
			Rotor inertia	0.144 lb-ft²

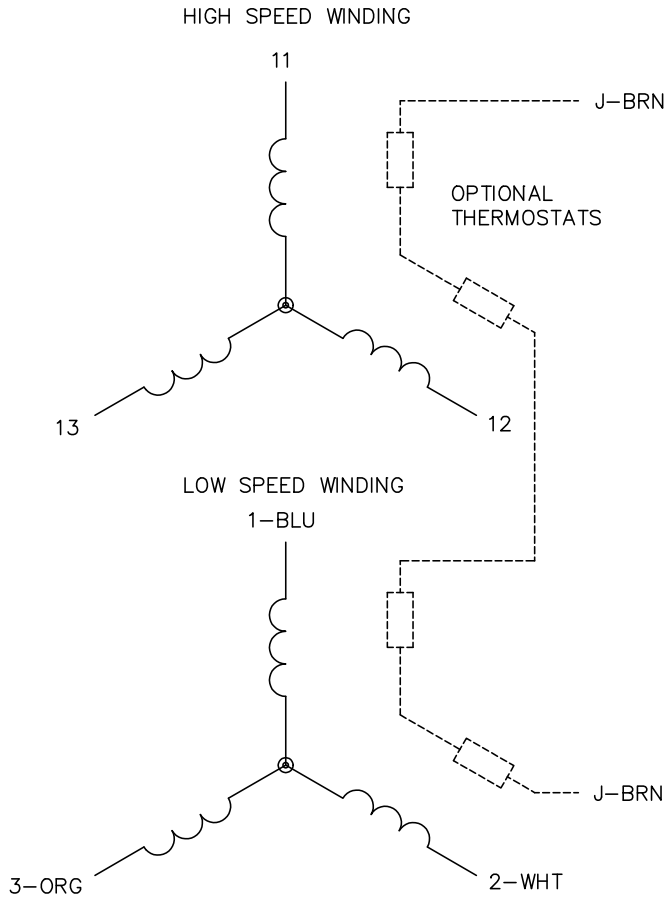
Load Characteristics 460 V, 60 Hz, 0.33 HP

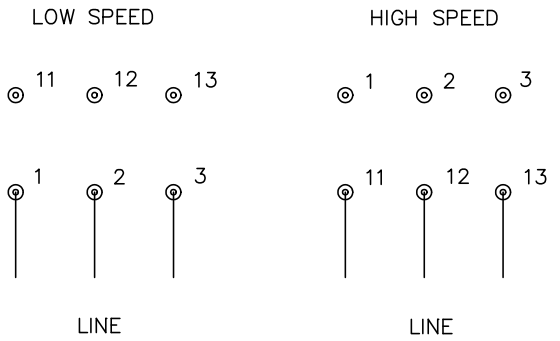
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	27	36	45	54	61	68	61
Efficiency	34.1	50.2	58.9	63.9	66.7	68.1	66.7
Speed	1192	1186	1179	1172	1164	1155	1164
Line amperes	0.844	0.851	0.87	0.901	0.944	1	0.944


ABB Motors and Mechanical Inc.
WINDING # 35WGG354
0.33 HP 3 PH 60 HZ 1172 RPM 460 V 3520M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=5.93 PU=2.76 LR=4.06 LRA=4.11
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (0.33 HP)
11/19/2026 ACPERF, record # 87828


35LYA011
510 - 520 = 12.22
521 - 528 = 13.22
529 - 535 = 14.10
536 - 546 = 15.47
2.44
1.88
.19 KEY
1.38 LONG
Ø7.19
NAMEPLATE
Ø .6250
.6245
3.75
3.00
2.75
.66
4.32
4 SLOTS
.34 WIDE
Ø6.61
5.75
4.52
6.78
3.50
3.44
THERMAL
(WHEN REQ'D)
LEAD HOLE
.88 DIA.
2.47
2.47
4.63
3.31
6.62
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.
REV. DESC: ADD CALLOUT FOR ATO WHEN REQ'D
REV: U
VERSION: 10
REVISED: 10:33:37 06/29/2022
TDR: 000001193180
MODEL NO. 35LYA011
REF: -
BY: USANEAT
Material: -
BALDOR - RELIANCE®
STD HORZ 56 TEFC 35M
SH 1 of 1
35LYA011

CD0013





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 VARY.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: D	BY: JLP	REVISED: 01/22/99 8:50	TDR: 0171435
CD0013		FILE: AAA00005143	MDL: –
		MTL: –	3PH, SV, 6 LEADS, 2–SPEED 2–WINDING

CD0013