BALDOR • RELIANCE

Customer information packet

CSPM3538

.5HP, 1725RPM, 3PH, 60HZ, 56HC, 3420M, TEFC, F1
Class - None
Division - Not Applicable

12/22/2025 2:58:24 PM

Specifications

Enclosure	TEFC
Frame	56HC
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	.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	C UR US
	WEEE
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	1.500 A @ 230.0 V
	.750 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	81.5 %
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

Part detail

Revision	C
Type	AC
Mech. spec.	34N586
Base	
Status	PRD/A
Elec. spec.	34WGR771
Layout	34LYN586
Eff. date	01-28-2025
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	03-07-2024

Inverter Code	Not Inverter
KVA Code	K
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	3420M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	12.84 IN
Power Factor	76
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 Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1725 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

NP4558A02LL									
CAT #	CSPM3538	**WGT**	27	**LBS**					
SER #		**ENCL**	TEFC						
SPEC	34N586R771	**CC**	010A	**IP**	54				
HP	.5	**NEMA NOM. EFF**	81.5						
VOLTS	230/460	**PF**	76						
AMPS	1.5/.75								
RATING	40C AMB-CONT								
RPM	1725	**PH**	3	**DES**	B				
FRAME	56HC	**HZ**	60	**CODE**	K	**CLASS**	F		
SER.F.	1.25	**SF AMP**	1.76/.88						
DE	6203	**ODE**	6203						
GREASE	POLYREX EM								
				QR					
YR									

AC Induction Motor Performance Data
Record # 100716
Preliminary Data Sheet

Winding: 34WGR771-R001	**Type:** 3420M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			.5	**Full Load Torque**	1.51 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			1.5/.75	**Breakdown Torque**	5.3 LB-FT
R.P.M.			1725	**Pull-up Torque**	3.5 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	4.1 LB-FT
NEMA Design Code	B	**KVA Code**	K	**Starting Current**	5.4 A
Service Factor (S.F.)			1.25	**No-load Current**	0.46 A
NEMA Nom. Eff.	81.5	**Power Factor**	76	**Line-line Res. @ 25ºC**	30.4 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	41°C
S.F. Amps			1.76/.88	**Temp. Rise @ S.F. Load**	54°C
				Locked-rotor Power Factor	54.5
				Rotor inertia	0.0476 lb-ft²

Load Characteristics 460 V, 60 Hz, 0.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	37	56	69	76	80	82	80
Efficiency	66.3	77.5	81.1	81.9	81.7	80.6	81.7
Speed	1779	1762	1744	1725	1704	1681	1704
Line amperes	0.48	0.55	0.63	0.75	0.88	1.03	0.88

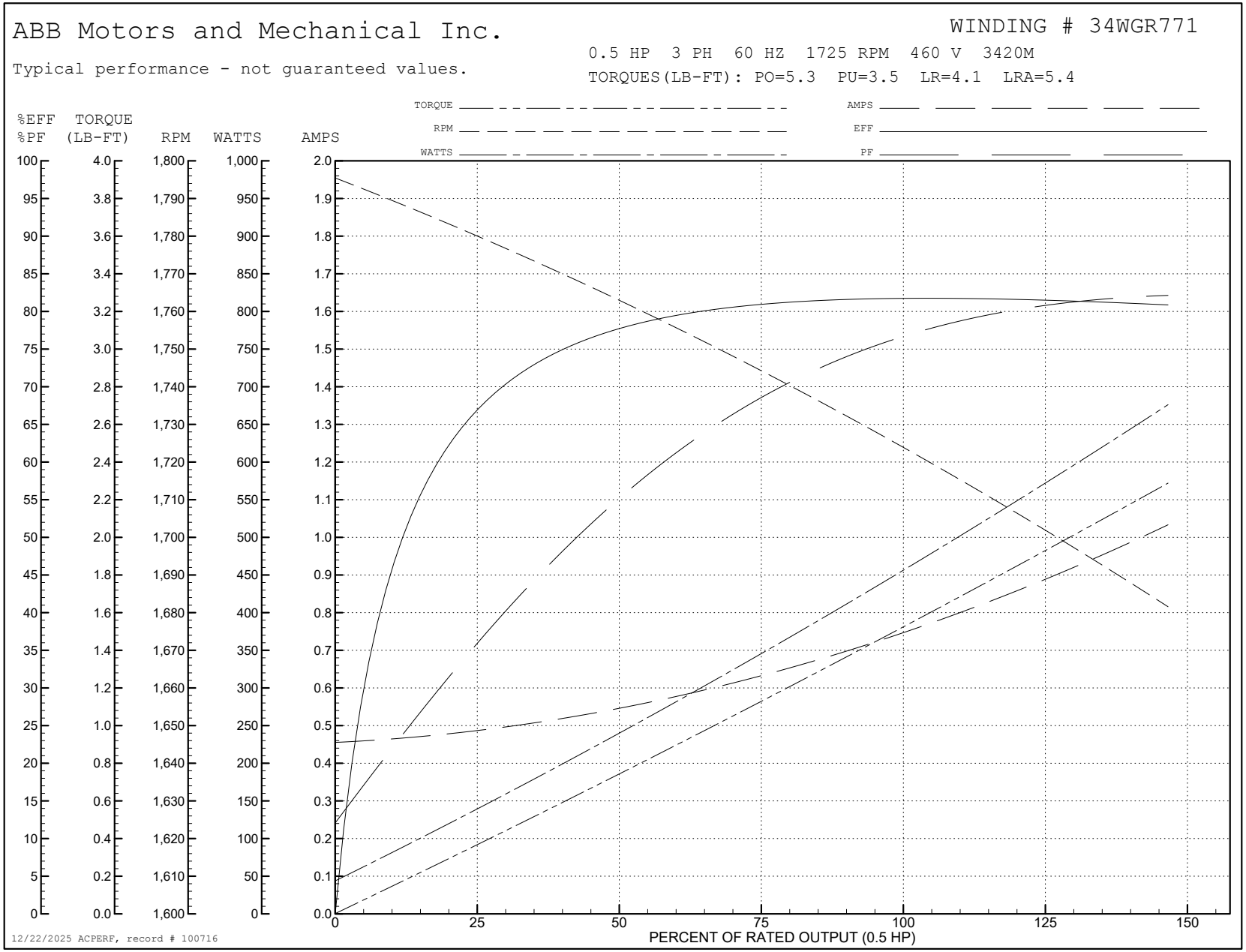
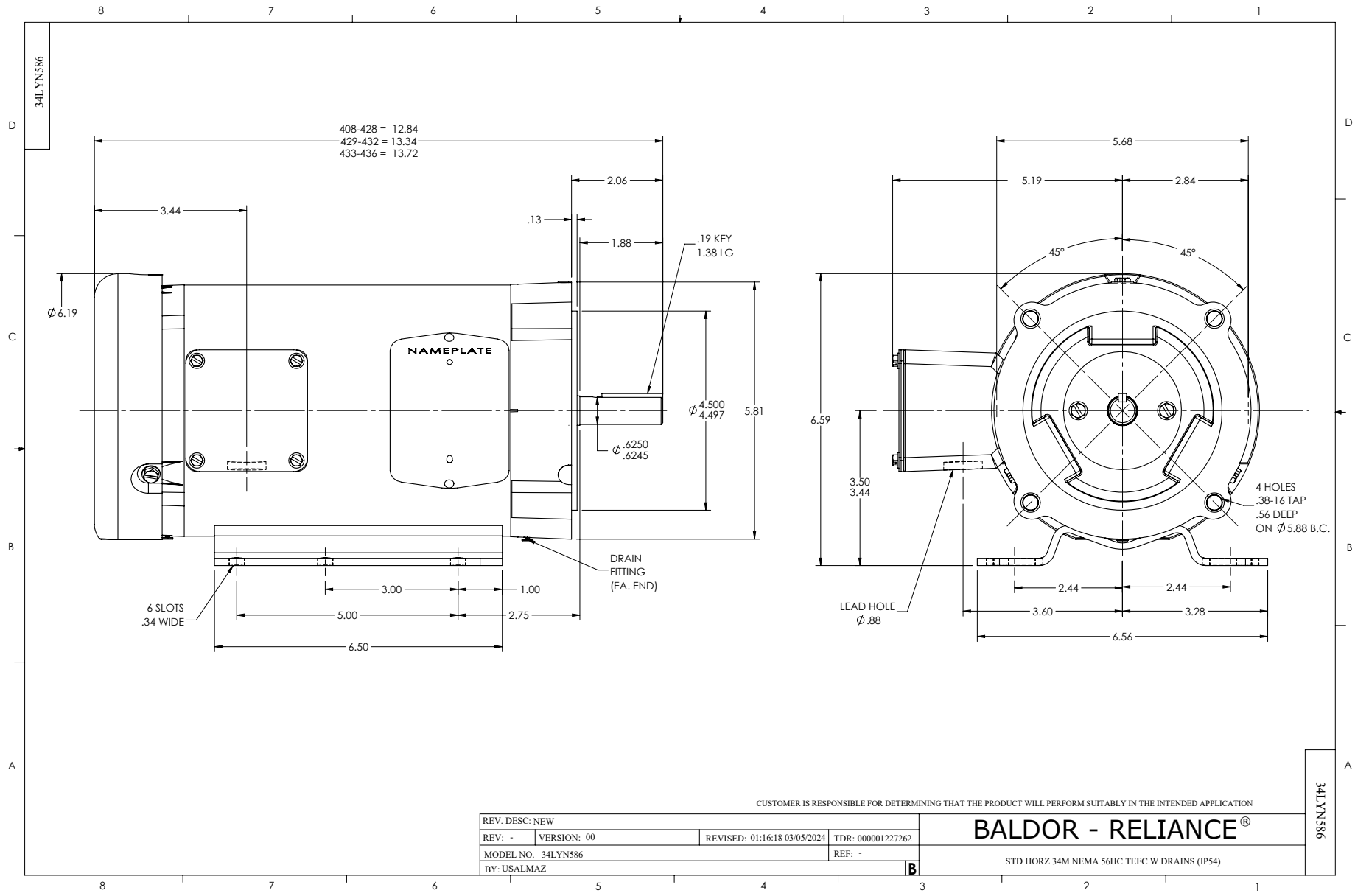
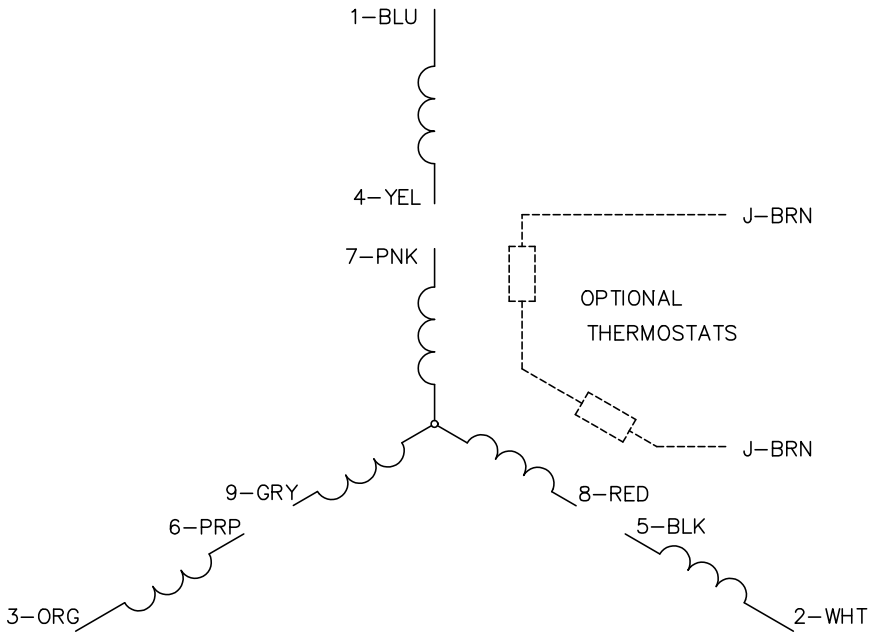
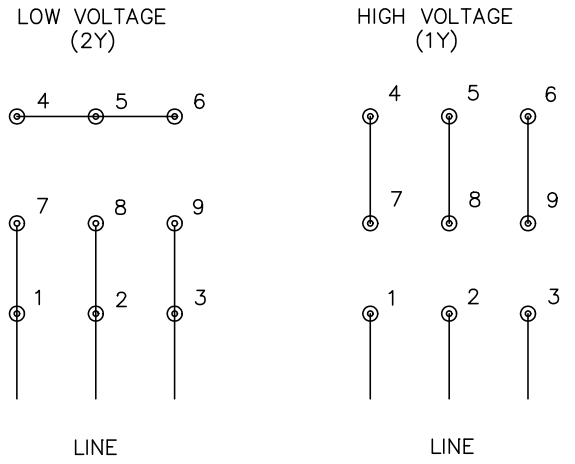


ABB Motors and Mechanical Inc.
WINDING # 34WGR771
Typical performance - not guaranteed values.
0.5 HP 3 PH 60 HZ 1725 RPM 460 V 3420M
TORQUES(LB-FT): PO=5.3 PU=3.5 LR=4.1 LRA=5.4
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (0.5 HP)
12/22/2025 ACPERF, record # 100716


34LYN586
408-428 = 12.84
429-432 = 13.34
433-436 = 13.72
2.06
3.44
.13
1.88
.19 KEY
1.38 LG
Ø 6.19
NAMEPLATE
Ø 4.500
4.497
5.81
Ø .6250
.6245
DRAIN
FITTING
(EA. END)
6 SLOTS
.34 WIDE
3.00
1.00
5.00
2.75
6.50
5.68
5.19
2.84
45°
45°
6.59
3.50
3.44
4 HOLES
.38-16 TAP
.56 DEEP
ON Ø 5.88 B.C.
LEAD HOLE
Ø .88
2.44
2.44
3.60
3.28
6.56
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: NEW
REV: -
VERSION: 00
REVISED: 01:16:18 03/05/2024
TDR: 000001227262
MODEL NO. 34LYN586
REF: -
BY: USALMAZ
B
BALDOR - RELIANCE®
STD HORZ 34M NEMA 56HC TEFC W DRAINS (IP54)
34LYN586

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