ABB BALDOR RELIANCE

Customer information packet

VSPM3534

.333HP, 1740RPM, 3PH, 60HZ, 56C, 3416M, TEFC, F
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
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	.333 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	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	1.040 A @ 230.0 V
	.520 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	77.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	0.5 a
Insulation Class	F

Part Detail

Revision	D
Type	AC
Mech. spec.	34N585
Base	
Status	PRD/A
Elec. spec.	34WGR772
Layout	35LYN585
Eff. date	03-06-2025
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	03-07-2024

Inverter Code	Not Inverter
KVA Code	L
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	3416M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	11.34 IN
Power Factor	75
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.35
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1740 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 #	VSPM3534			**WGT**	24		**LBS**			
SER #					**ENCL**	TEFC				
SPEC	34N585R772			**CC**	010A		**IP**	54		
HP	.333						**NEMA NOM. EFF**		77	
VOLTS	230/460			**PF**	75					
AMPS	1.04/.52									
RATING	40C AMB-CONT									
RPM	1740				**PH**	3	**DES**	B		
FRAME	56C	**HZ**	60	**CODE**	L		**CLASS**	F		
SER.F.	1.35	**SF AMP**	1.3/.65							
DE	6203		**ODE**	6203						
GREASE	POLYREX EM									
						QR				
YR										

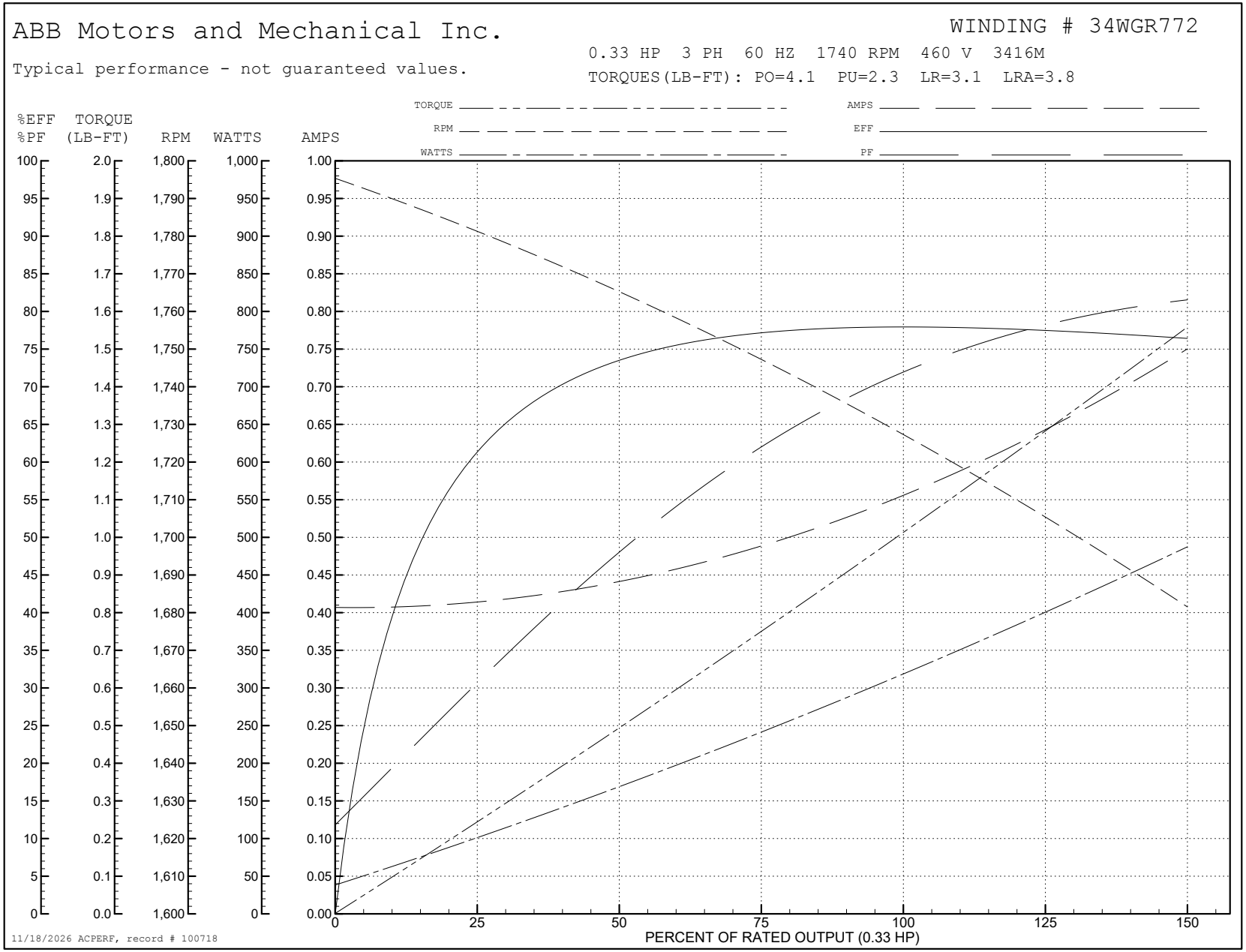
AC Induction Motor Performance Data
Record # 100718
Preliminary Data Sheet

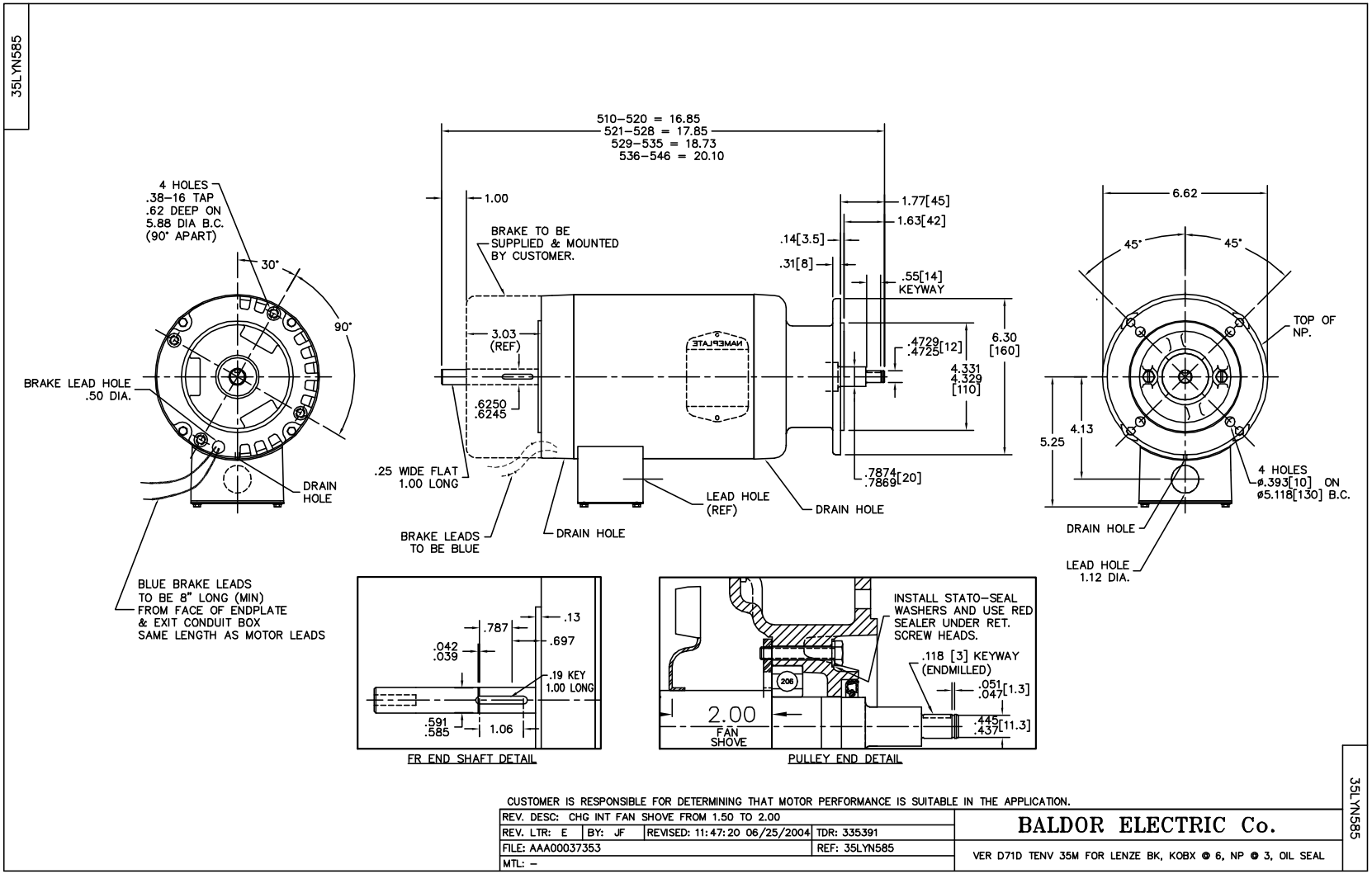
Winding: 34WGR772-R001	**Type:** 3416M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			.333	**Full Load Torque**	1.01 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			1.04/.52	**Breakdown Torque**	4.1 LB-FT
R.P.M.			1740	**Pull-up Torque**	2.3 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	3.1 LB-FT
NEMA Design Code	B	**KVA Code**	L	**Starting Current**	3.8 A
Service Factor (S.F.)			1.35	**No-load Current**	0.41 A
NEMA Nom. Eff.	77	**Power Factor**	75	**Line-line Res. @ 25ºC**	56.1 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	27°C
S.F. Amps			1.3/.65	**Temp. Rise @ S.F. Load**	39°C
				Locked-rotor Power Factor	62.8
				Rotor inertia	0.0381 lb-ft²

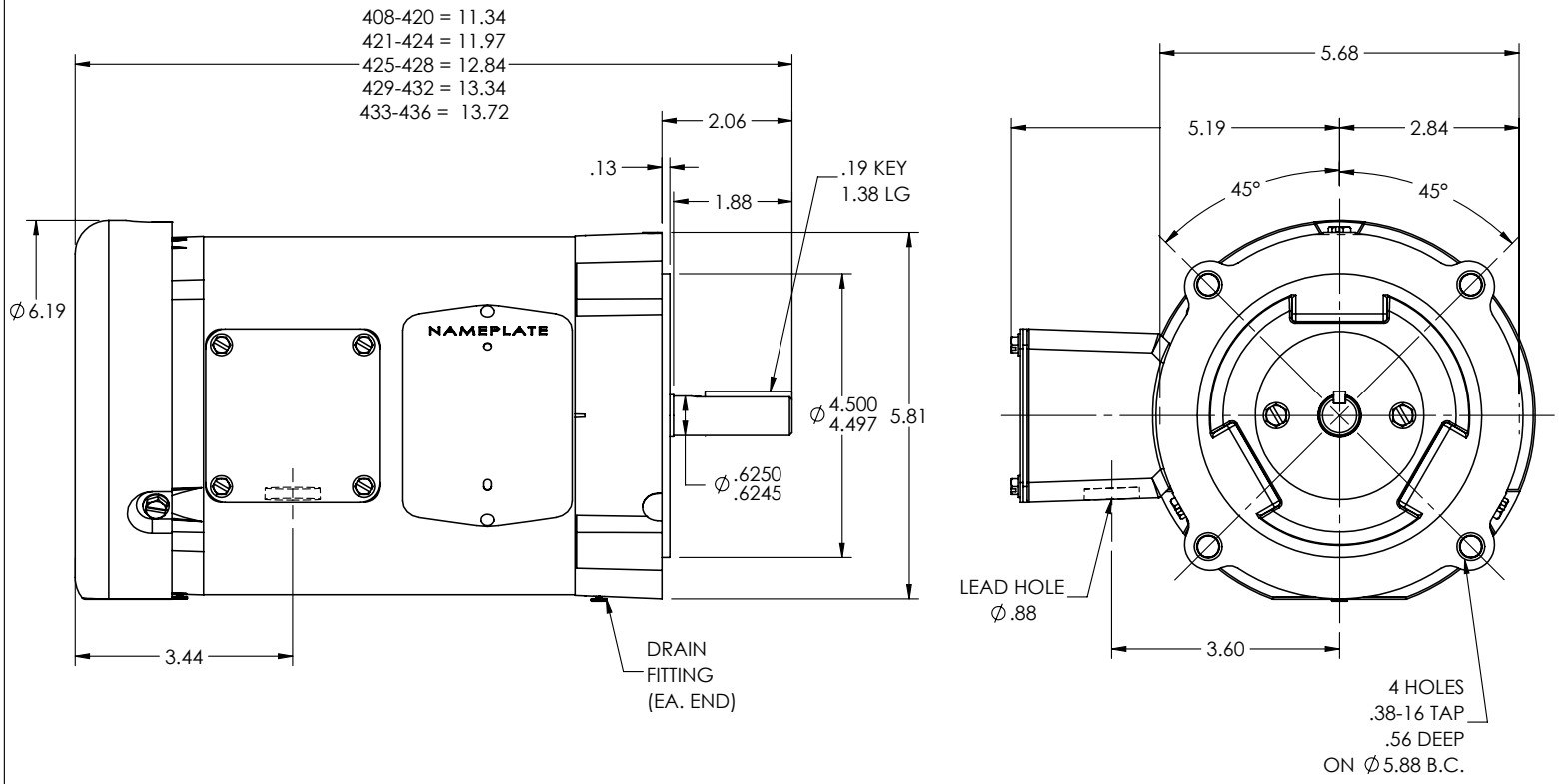
Load Characteristics 460 V, 60 Hz, 0.33 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	31	48	62	71	78	82	80
Efficiency	61.3	72.9	76.7	78	77.7	76.3	77.1
Speed	1780	1765	1747	1728	1706	1681	1696
Line amperes	0.41	0.44	0.49	0.56	0.64	0.75	0.684


ABB Motors and Mechanical Inc.
WINDING # 34WGR772
Typical performance - not guaranteed values.
0.33 HP 3 PH 60 HZ 1740 RPM 460 V 3416M
TORQUES(LB-FT): PO=4.1 PU=2.3 LR=3.1 LRA=3.8
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 1,790 1,780 1,770 1,760 1,750 1,740 1,730 1,720 1,710 1,700 1,690 1,680 1,670 1,660 1,650 1,640 1,630 1,620 1,610 1,600
1,000 950 900 850 800 750 700 650 600 550 500 450 400 350 300 250 200 150 100 50 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 (0.33 HP)
11/18/2026 ACPERF, record # 100718


35LYN585
4 HOLES
.38-16 TAP
.62 DEEP ON
5.88 DIA B.C.
(90° APART)
30°
90°
BRAKE LEAD HOLE
.50 DIA.
DRAIN HOLE
BLUE BRAKE LEADS
TO BE 8" LONG (MIN)
FROM FACE OF ENDPLATE
& EXIT CONDUIT BOX
SAME LENGTH AS MOTOR LEADS
510-520 = 16.85
521-528 = 17.85
529-535 = 18.73
536-546 = 20.10
1.00
BRAKE TO BE
SUPPLIED & MOUNTED
BY CUSTOMER.
1.77[45]
1.63[42]
.14[3.5]
.31[8]
.55[14]
KEYWAY
3.03
(REF)
.4729
.4725[12]
6.30
[160]
4.331
4.329
[110]
.6250
.6245
.25 WIDE FLAT
1.00 LONG
.7874
.7869[20]
LEAD HOLE
(REF)
DRAIN HOLE
BRAKE LEADS
TO BE BLUE
DRAIN HOLE
6.62
45°
45°
TOP OF
NP.
4.13
5.25
4 HOLES
ø.393[10] ON
ø5.118[130] B.C.
DRAIN HOLE
LEAD HOLE
1.12 DIA.
.787
.042
.039
.13
.697
.19 KEY
1.00 LONG
.591
.585
1.06
FR END SHAFT DETAIL
INSTALL STATO-SEAL
WASHERS AND USE RED
SEALER UNDER RET.
SCREW HEADS.
.118 [3] KEYWAY
(ENDMILLED)
.051
.047[1.3]
.445
.437[11.3]
2.00
FAN
SHOVE
PULLEY END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.
REV. DESC: CHG INT FAN SHOVE FROM 1.50 TO 2.00
REV. LTR: E BY: JF REVISED: 11:47:20 06/25/2004 TDR: 335391
FILE: AAA00037353 REF: 35LYN585
MTL: –
BALDOR ELECTRIC Co.
VER D71D TENV 35M FOR LENZE BK, KOBX @ 6, NP @ 3, OIL SEAL
35LYN585

34LYN585



CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION

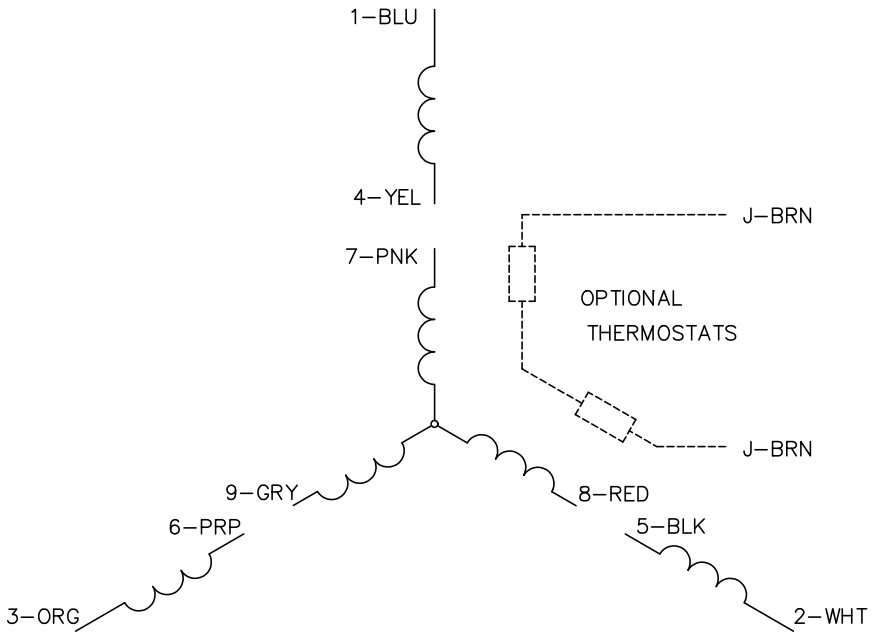
REV. DESC: NEW			
REV: -	VERSION: 00	REVISED: 01:20:17 03/05/2024	TDR: 000001227262
34LYN585	MODEL NO. 34LYN585		REF: -
	BY: USALMAZ		

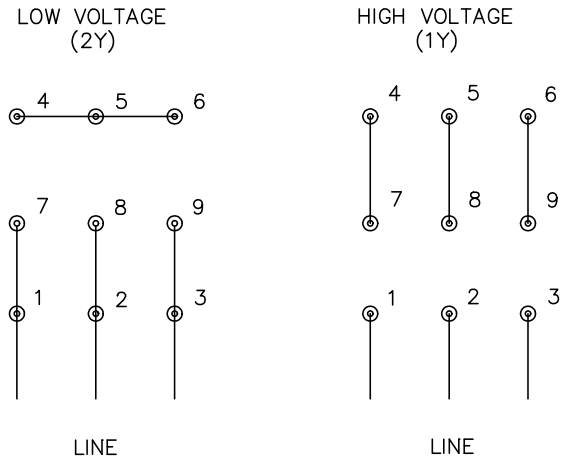
BALDOR - RELIANCE®

VERT 34M NEMA 56C TEFC W/DRAINS (IP54)

34LYN585

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