BALDOR • RELIANCE

Customer information packet

EMVM3555D

1.5KW, 3490RPM, 3PH, 60HZ, D90LD, 3526M, TEFC
Class - None
Division - Not Applicable

6/9/2025 4:38:31 AM

Specifications

Enclosure	TEFC
Frame	D90LD
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	1.500 KW @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	208.0 V @ 60 HZ
	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	CSA EEV
	CE
	CSA
	UR
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	5.300 A @ 208.0 V
	5.000 A @ 230.0 V
	2.500 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	85.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK

Part detail

Revision	M
Type	AC
Mech. spec.	35Q175
Base	
Status	PRD/A
Elec. spec.	35WGM774
Layout	35LYQ175
Eff. date	06-04-2025
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	05-08-2015

Frame Prefix	D
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	2.5 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	M
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	IEC
Motor Type	3526M
Mounting Arrangement	B5
Number of Poles	2
Overall Length	12.99 IN
Power Factor	88
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	D-Flange
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	0.945 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3490 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

NP2672L								
CAT.NO.	EMVM3555D							
SPEC.	35Q175M774G1							
IEC FRAME	D90SD,LD	**KW**	1.5					
VOLTS	208-230/460							
AMP	5.3-5/2.5							
RPM	3490	**ENCL**	TEFC					
HZ	60	**PH**	3	**CL**	F			
SER.F.	1.15	**DES**	B	**CODE**	M			
NEMA-NOM-EFF	85.5	**I.P.**	54					
RATING	40C AMB-CONT							
CC	010A	**USABLE AT 208V**	N/A					
DE	6205	**ODE**	6203					
SER. #								

AC Induction Motor Performance Data
Record # 50636
Typical performance - not guaranteed values

Winding: 35WGM774-R016	**Type:** 3526M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (KW)			1.5	**Full Load Torque**	2.98 LB-FT
Volts			208-230/460	**Start Configuration**	direct on line
Full Load Amps			5.3-5/2.5	**Breakdown Torque**	14.2 LB-FT
R.P.M.			3490	**Pull-up Torque**	6.33 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	11.2 LB-FT
NEMA Design Code	B	**KVA Code**	M	**Starting Current**	25.9 A
Service Factor (S.F.)			1.15	**No-load Current**	0.912 A
NEMA Nom. Eff.	85.5	**Power Factor**	88	**Line-line Res. @ 25ºC**	6.9119 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	44°C
S.F. Amps				**Temp. Rise @ S.F. Load**	52°C
				Locked-rotor Power Factor	50
				Rotor inertia	0.0719 LB-FT2

Load Characteristics 460 V, 60 Hz, 1.5 KW

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	55	75	84	88	90	91	89
Efficiency	74.3	83.5	85.9	86.4	85.9	84.8	86.1
Speed	3571.7	3546.5	3520.2	3492.1	3460.7	3425.5	3473
Line amperes	1.1	1.47	1.93	2.44	3	3.61	2.78

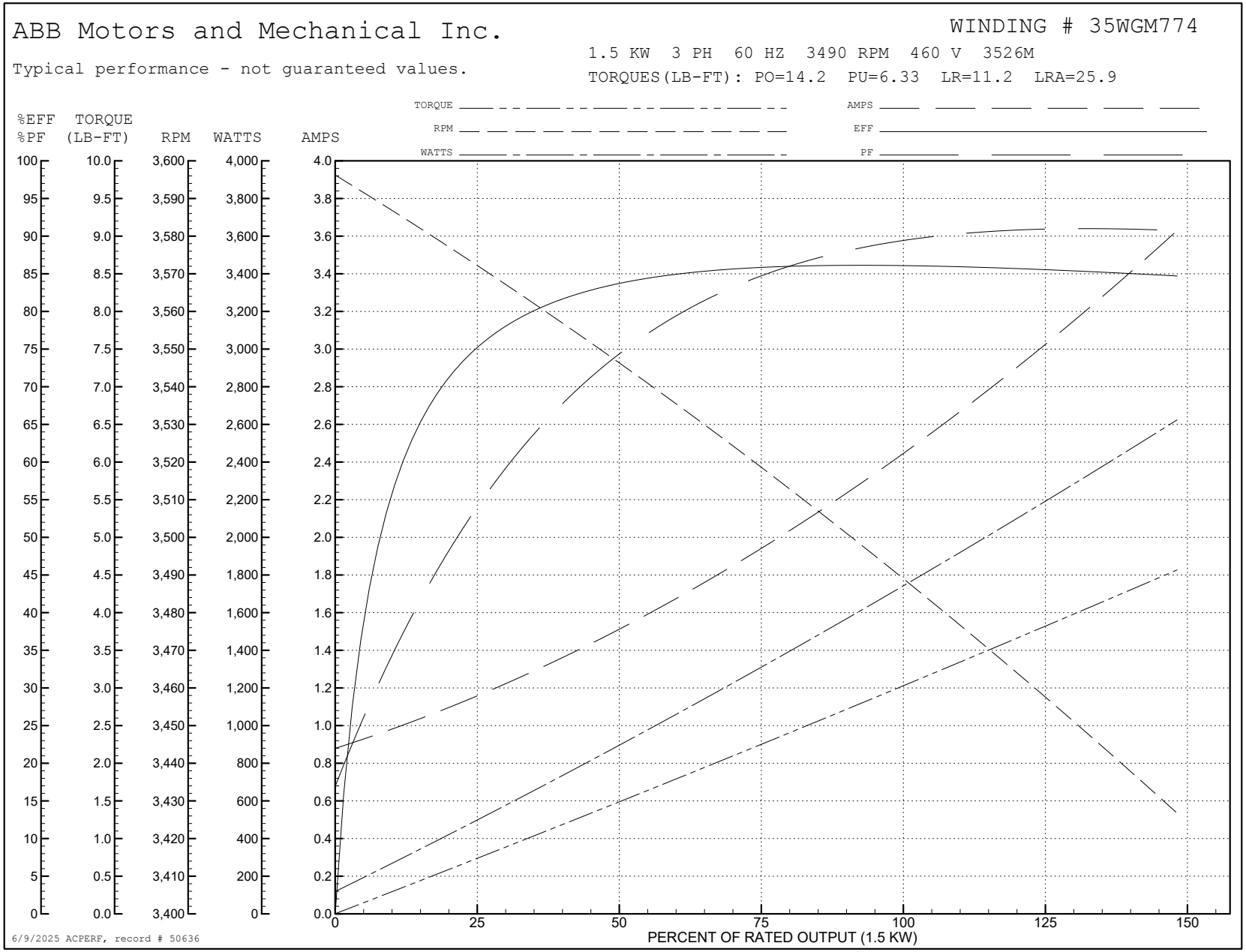


ABB Motors and Mechanical Inc.
WINDING # 35WGM774
1.5 KW 3 PH 60 HZ 3490 RPM 460 V 3526M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=14.2 PU=6.33 LR=11.2 LRA=25.9
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (1.5 KW)
6/9/2025 ACPERF, record # 50636

AC Induction Motor Performance Data
Record # 50637
Typical performance - not guaranteed values

Winding: 35WGM774-R016	**Type:** 3526M	**Enclosure:** TEFC

Nameplate Data				**208 V, 60 Hz: Low Voltage Connection**	
Rated Output (KW)			1.5	**Full Load Torque**	3 LB-FT
Volts			208-230/460	**Start Configuration**	direct on line
Full Load Amps			5.3-5/2.5	**Breakdown Torque**	11.5 LB-FT
R.P.M.			3490	**Pull-up Torque**	5.05 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	8.93 LB-FT
NEMA Design Code	B	**KVA Code**	M	**Starting Current**	46.2 A
Service Factor (S.F.)			1.15	**No-load Current**	1.56 A
NEMA Nom. Eff.	85.5	**Power Factor**	88	**Line-line Res. @ 25ºC**	1.72 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	45°C
S.F. Amps				**Temp. Rise @ S.F. Load**	55°C
				Locked-rotor Power Factor	49.3
				Rotor inertia	0.0719 LB-FT2

Load Characteristics 208 V, 60 Hz, 1.5 KW

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	63	82	88	91	92	92	92
Efficiency	76.1	85.2	86.2	86	85	83	85.4
Speed	3566	3535	3502	3466	3426	3379	3442
Line amperes	2.04	2.94	4.04	5.25	6.58	8.06	6.05

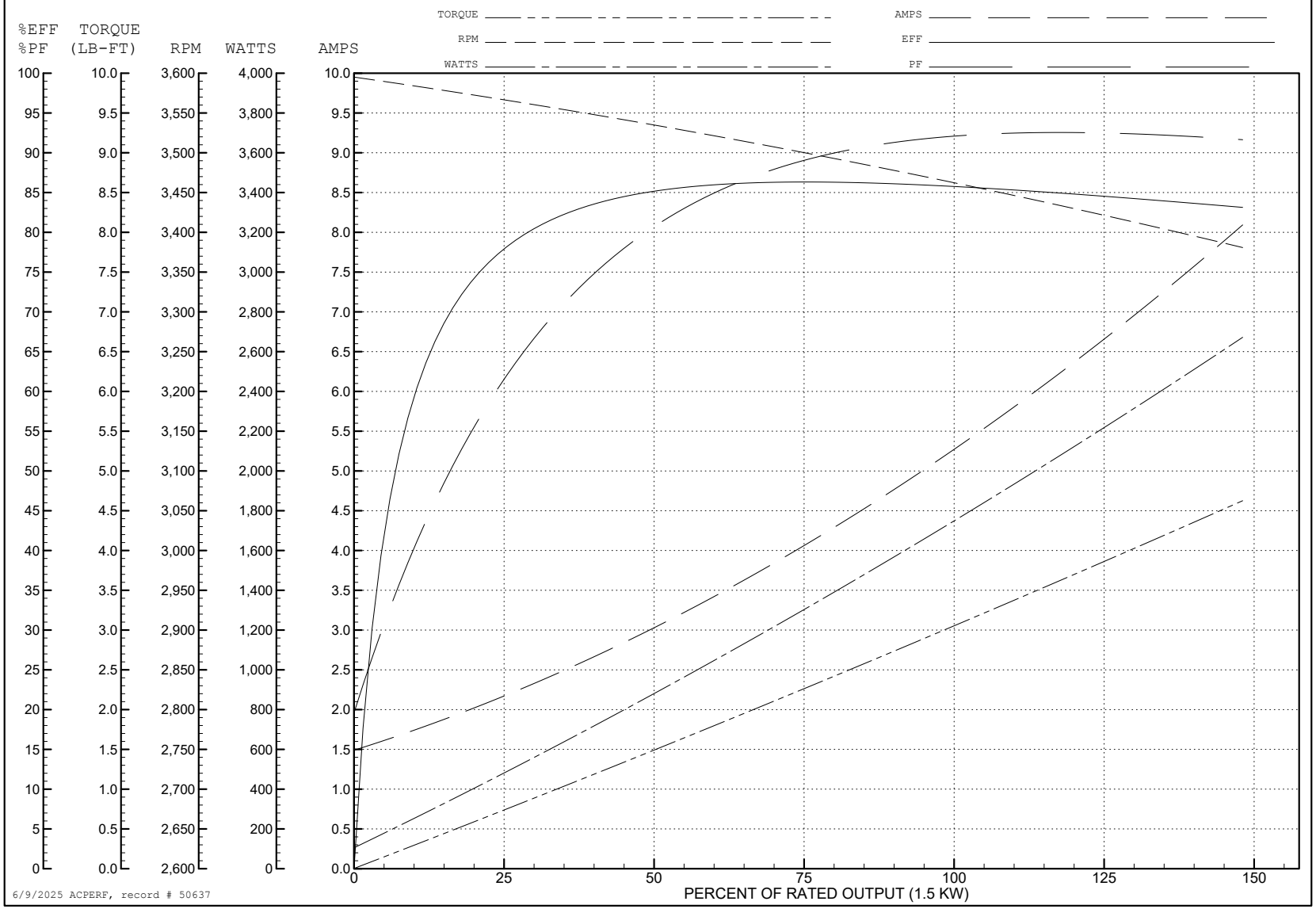
ABB Motors and Mechanical Inc.

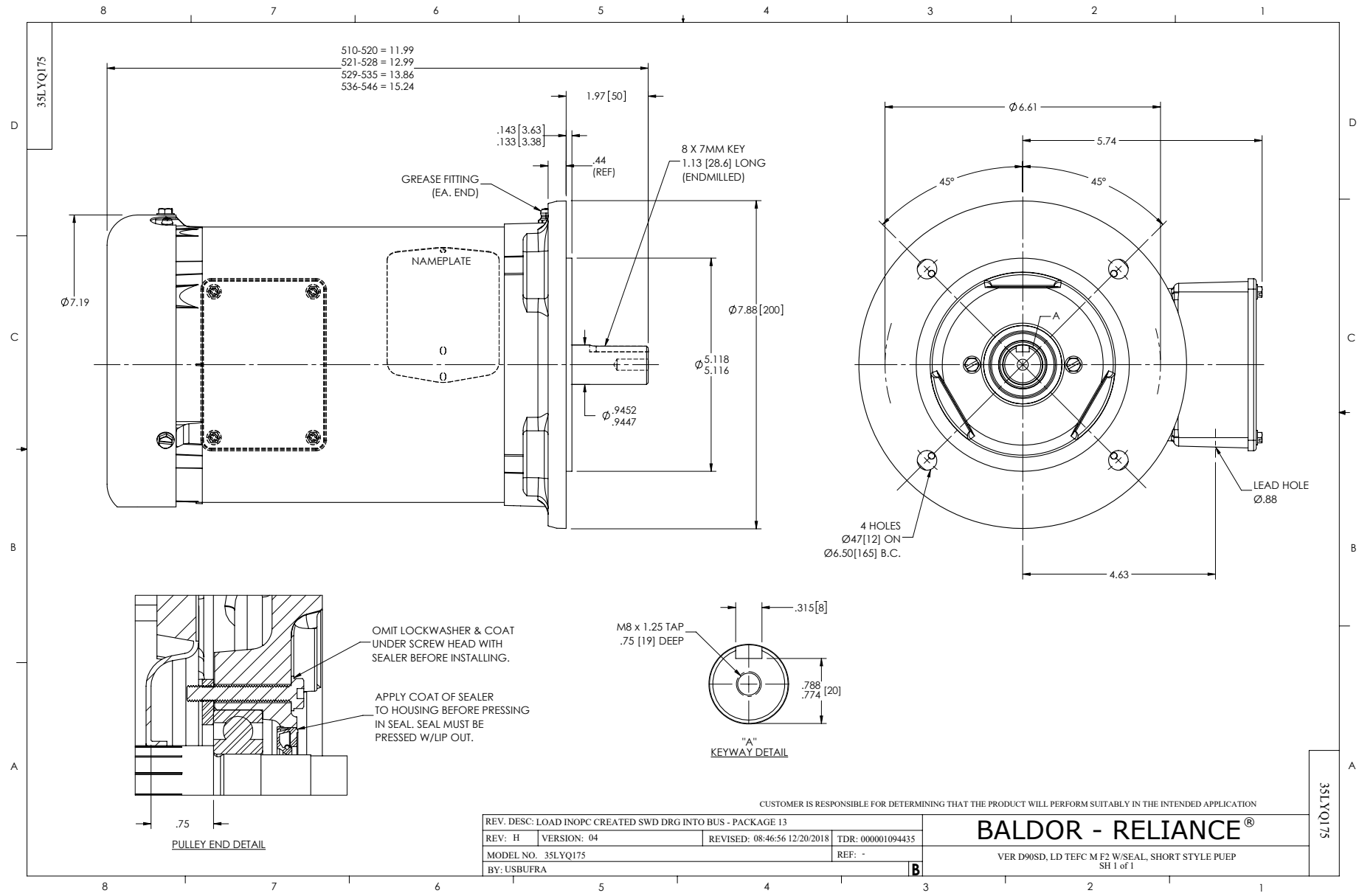
WINDING # 35WGM774

1.5 KW 3 PH 60 HZ 3490 RPM 208 V 3526M

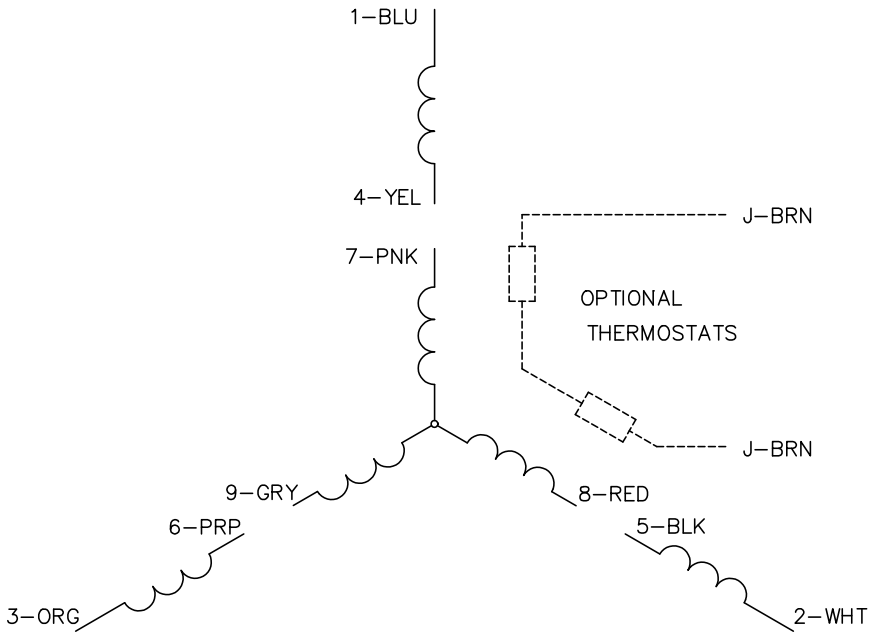
Typical performance - not guaranteed values.

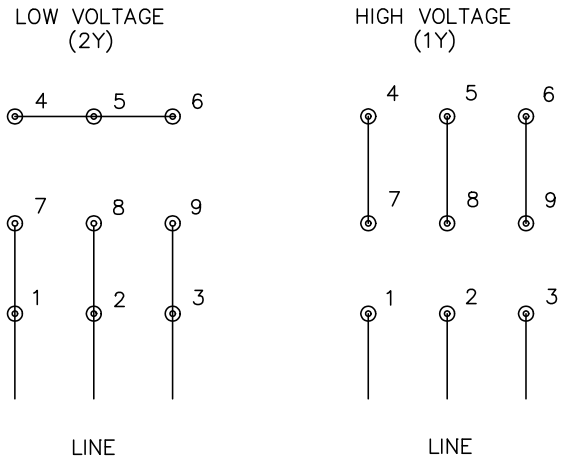
TORQUES(LB-FT): PO=11.5 PU=5.05 LR=8.93 LRA=46.2




35LYQ175
510-520 = 11.99
521-528 = 12.99
529-535 = 13.86
536-546 = 15.24
1.97 [50]
.143 [3.63]
.133 [3.38]
.44 (REF)
8 X 7MM KEY
1.13 [28.6] LONG
(ENDMILLED)
GREASE FITTING
(EA. END)
NAMEPLATE
Ø7.19
Ø7.88 [200]
Ø5.118
5.116
Ø.9452
.9447
Ø6.61
5.74
45°
45°
A
LEAD HOLE
Ø.88
4 HOLES
Ø47[12] ON
Ø6.50[165] B.C.
4.63
OMIT LOCKWASHER & COAT
UNDER SCREW HEAD WITH
SEALER BEFORE INSTALLING.
APPLY COAT OF SEALER
TO HOUSING BEFORE PRESSING
IN SEAL. SEAL MUST BE
PRESSED W/LIP OUT.
.75
PULLEY END DETAIL
.315[8]
M8 x 1.25 TAP
.75 [19] DEEP
.788
.774 [20]
"A"
KEYWAY DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD INOPC CREATED SWD DRG INTO BUS - PACKAGE 13
REV: H
VERSION: 04
REVISED: 08:46:56 12/20/2018
TDR: 000001094435
MODEL NO. 35LYQ175
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
VER D90SD, LD TEFC M F2 W/SEAL, SHORT STYLE PUEP
SH 1 of 1
35LYQ175

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