ABB BALDOR RELIANCE

Customer information packet

EJMM3555T-G

2HP, 3490RPM, 3PH, 60HZ, 145JM, 3526M, TEFC, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	145JM
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	2.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
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	2.500 A @ 460.0 V
	5.000 A @ 230.0 V
	5.300 A @ 208.0 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
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	2.5 a
Insulation Class	F
Inverter Code	Inverter Ready

Part Detail

Revision	K
Type	AC
Mech. spec.	35E1603
Base	
Status	PRD/A
Elec. spec.	35WGM774
Layout	35LYE1603
Eff. date	04-15-2026
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	04-02-2018

KVA Code	M
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	3526M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	15.41 IN
Power Factor	88
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	3490 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP3441LUA									
CAT.NO.	EJMM3555T-G								
SPEC	35E1603M774G1								
HP	2								
VOLTS	208-230/460								
AMPS	5.3-5/2.5								
RPM	3490								
FRAME	145JM	**HZ**	60			**PH**	3		
SF	1.15	**CODE**	M	**DES**	B	**CLASS**	H		
NEMA NOM. EFF	85.5	**PF**	88						
RATING	40C AMB-CONT								
CC	010A								
ENCL	TEFC	**SER**							
DE	6206	**ODE**	6203						
VPWM INVERTER READY									
CT6-60H(10:1)VT3-60H(20:1									
	50Hz 2HP 190/380V 5.8/2.9A								SF1.0

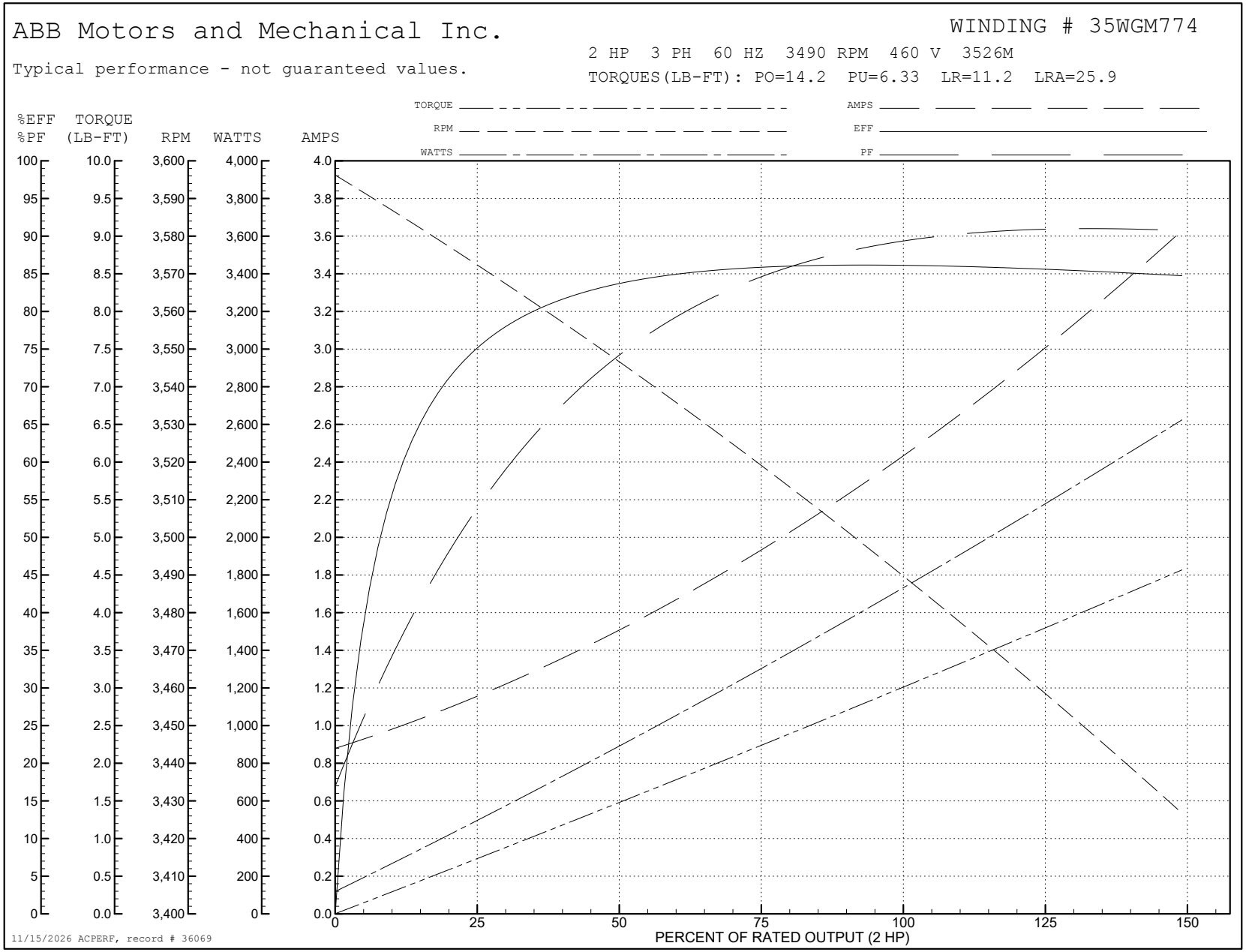
AC Induction Motor Performance Data
Record # 36069
Typical performance - not guaranteed values

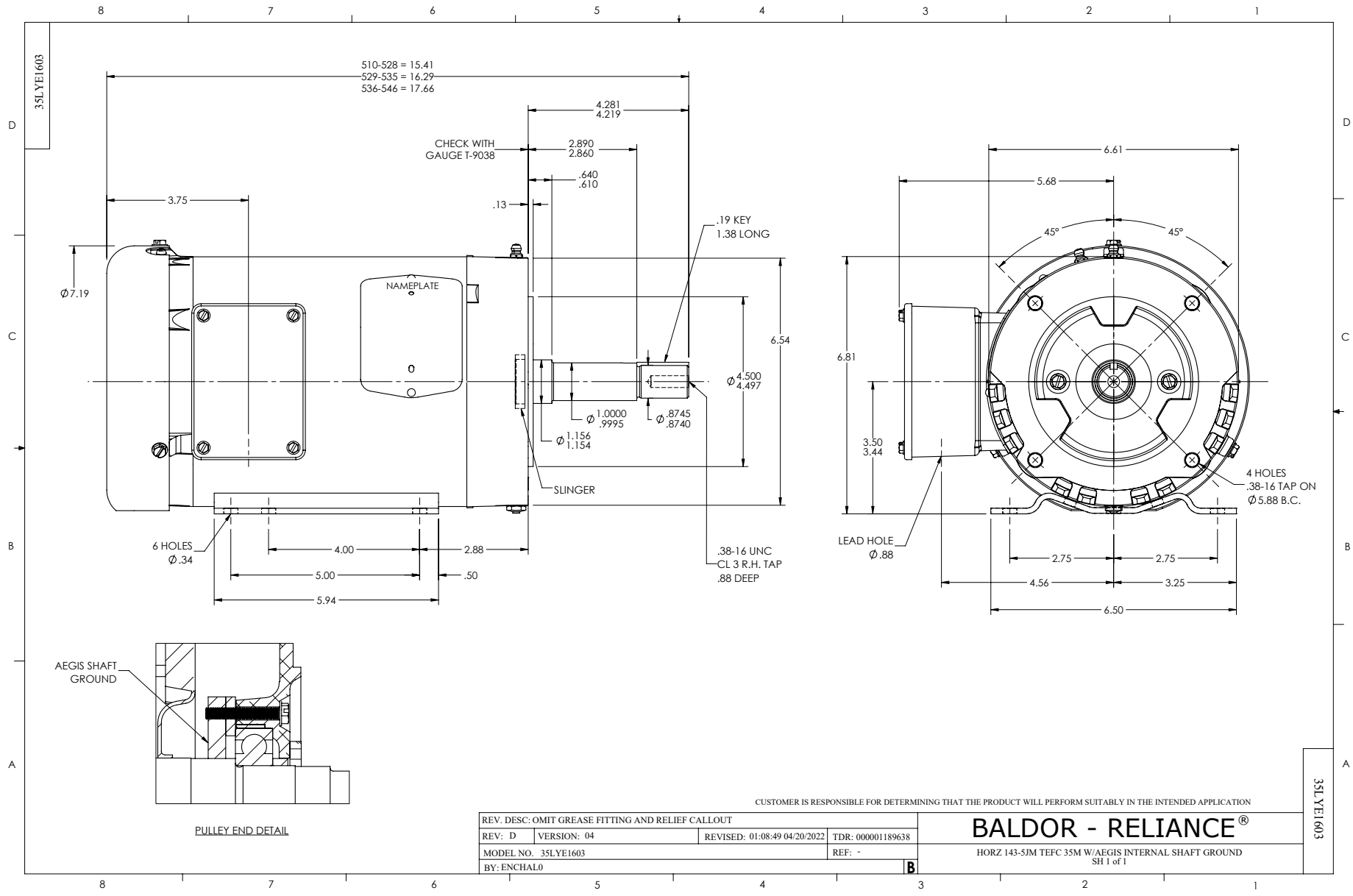
Winding: 35WGM774-R018	**Type:** 3526M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			2	**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

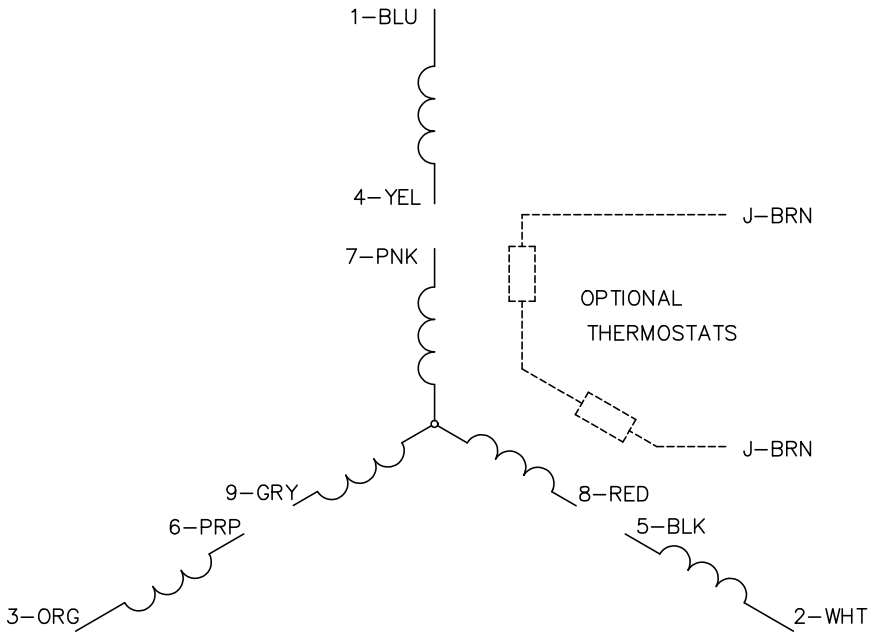
Load Characteristics 460 V, 60 Hz, 2 HP

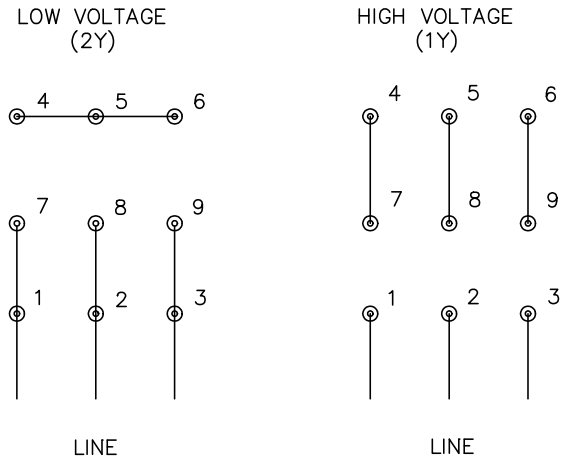
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	55	75	84	88	90	91	89
Efficiency	74.3	83.5	85.9	86.4	85.9	84.8	86.1
Speed	3571.7	3546.5	3520.2	3492.1	3460.7	3425.5	3473
Line amperes	1.1	1.47	1.93	2.44	3	3.61	2.78


ABB Motors and Mechanical Inc.
WINDING # 35WGM774
Typical performance - not guaranteed values.
2 HP 3 PH 60 HZ 3490 RPM 460 V 3526M
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 (2 HP)
11/15/2026 ACPERF, record # 36069


35LYE1603
510-528 = 15.41
529-535 = 16.29
536-546 = 17.66
4.281
4.219
CHECK WITH GAUGE T-9038
2.890
2.860
.640
.610
.13
3.75
.19 KEY
1.38 LONG
Ø7.19
NAMEPLATE
6.54
Ø4.500
4.497
Ø1.0000
.9995
Ø.8745
.8740
Ø1.156
1.154
SLINGER
6 HOLES
Ø.34
4.00
2.88
5.00
.50
5.94
.38-16 UNC
CL 3 R.H. TAP
.88 DEEP
6.61
5.68
45°
45°
6.81
3.50
3.44
4 HOLES
.38-16 TAP ON
Ø5.88 B.C.
LEAD HOLE
Ø.88
2.75
2.75
4.56
3.25
6.50
AEGIS SHAFT GROUND
PULLEY END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: OMIT GREASE FITTING AND RELIEF CALLOUT
REV: D
VERSION: 04
REVISED: 01:08:49 04/20/2022
TDR: 000001189638
MODEL NO. 35LYE1603
REF: -
BY: ENCHAL0
B
BALDOR - RELIANCE®
HORZ 143-5JM TEFC 35M W/AEGIS INTERNAL SHAFT GROUND
SH 1 of 1
35LYE1603

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