

BALDOR • RELIANCE

Customer information packet

VFSWDM3554T-E

1.5HP, 1770RPM, 3PH, 60HZ, 145TC, 3526M, TEFC

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	145TC
Frame Material	Stainless Steel
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	1.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
XP Class and Group	None
XP Division	Not Applicable
Agency Approvals	CSA EEV CURUSEEV NEMA PREMIUM NEMA_PREMIUM WEEE
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	4.200 A @ 230.0 V 2.100 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None

Part detail

Revision	A
Type	AC
Mech. spec.	35E4709
Base	
Status	PRD/A
Elec. spec.	35WGZ819
Layout	35LYE4709
Eff. date	08-14-2023
CD Diagram	CD0005
Poles	04
Leads	9#18 Y
Proprietary	False
Created date	03-11-2022

Heater Indicator	No Heater
High Voltage Full Load Amps	2.1 a
Insulation Class	H
Inverter Code	Inverter Ready
KVA Code	M
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Finish	UNPAINTED
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	4
Overall Length	14.03 IN
Power Factor	76
Product Family	WD All SS Encapsulated
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1770 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

NP4427AAA01

CAT #	VFSWDM3554T-E	WT	41	LBS	
SPEC	35E4709Z819G1	ENCL	TEFC		
SER #		CC	010A	IP	69
HP	1.5	MAG CUR	2.5/1.25		
VOLTS	230/460	NEMA NOM. EFF		86.5	
AMPS	4.2/2.1	PF	76		
RATING	40C AMB-CONT				
RPM	1770	MAX RPM	2700		
FRAME	145TC	HZ	60	CODE	M
SER.F.	1.15	SF AMP	4.7/2.35	PH	3
DE	6205	ODE	6205	DES	B
LUBRICATION	POLYREX EM				
ID LOGO	INVERTER TYPE	VPWM	CHP	60	TO
					90
ID LOGO	WK2	0.189	CT	15	TO
					60
ID LOGO	SL HZ	0.93	VT	3	TO
					60
					20:1
YR				QR	

AC Induction Motor Performance Data

Record # 87353

Preliminary Data Sheet

Winding: 35WGZ819-R001		Type: 3526M	Enclosure: TEFC	
Nameplate Data			460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	1.5	Full Load Torque	4.47 LB-FT	
Volts	230/460	Start Configuration	direct on line	
Full Load Amps	4.2/2.1	Breakdown Torque	18.92 LB-FT	
R.P.M.	1770	Pull-up Torque	9.99 LB-FT	
Hz	60 Phase	Locked-rotor Torque	12.27 LB-FT	
NEMA Design Code	B KVA Code	Starting Current	19.68 A	
Service Factor (S.F.)	1.15	No-load Current	1.24 A	
NEMA Nom. Eff.	86.5 Power Factor	Line-line Res. @ 25°C	11.5 Ω	
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	37°C	
S.F. Amps	4.7/2.35	Temp. Rise @ S.F. Load	44°C	
		Locked-rotor Power Factor	59.3	
		Rotor inertia	0.188 lb-ft ²	

Load Characteristics 460 V, 60 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	36	55	68	76	81	84	79
Efficiency	77.4	85.3	87.5	87.7	87.2	86	87.4
Speed	1793	1786	1780	1772	1765	1756	1768
Line amperes	1.32	1.5	1.78	2.11	2.49	2.92	2.34

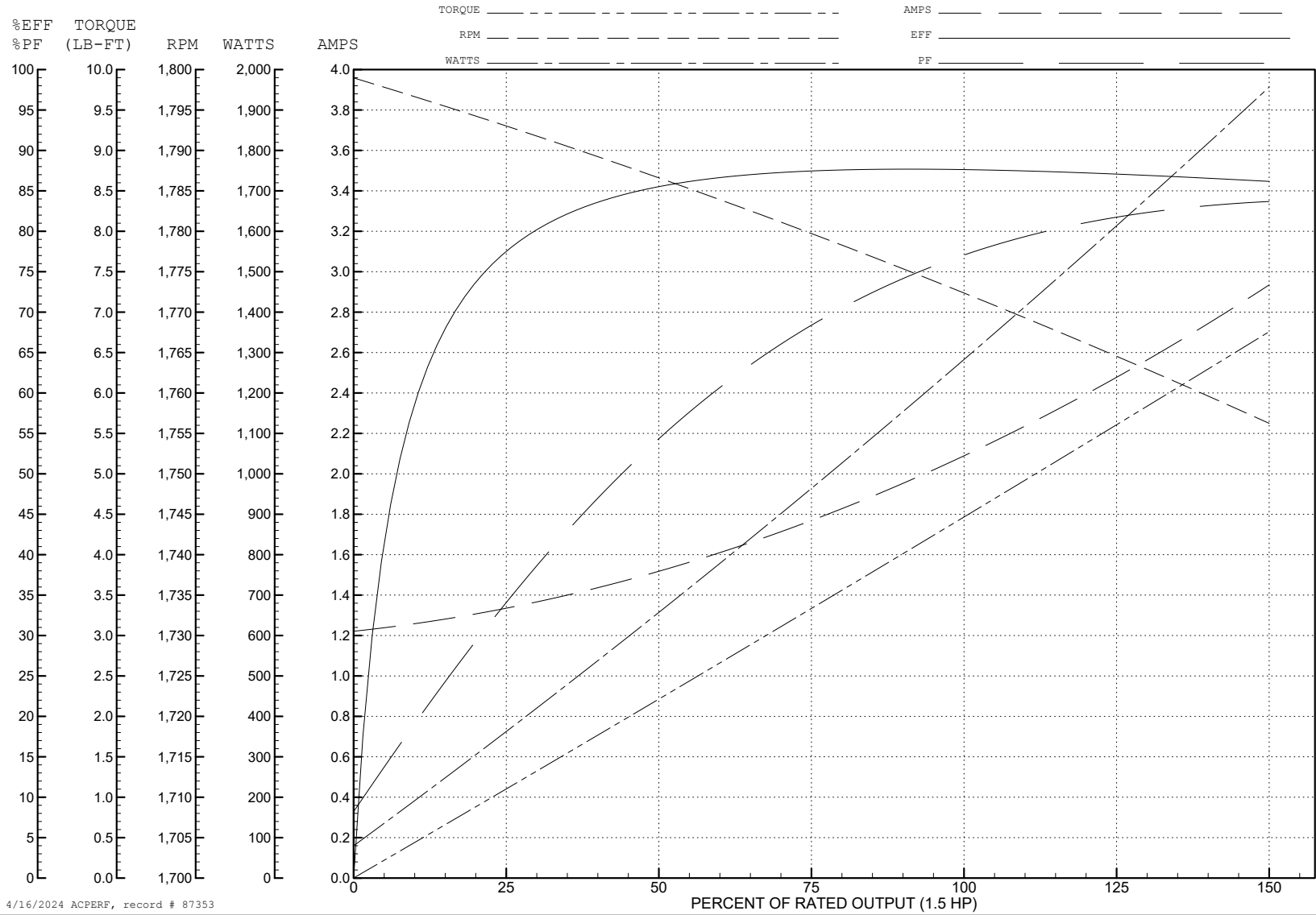
ABB Motors and Mechanical Inc.

WINDING # 35WGZ819

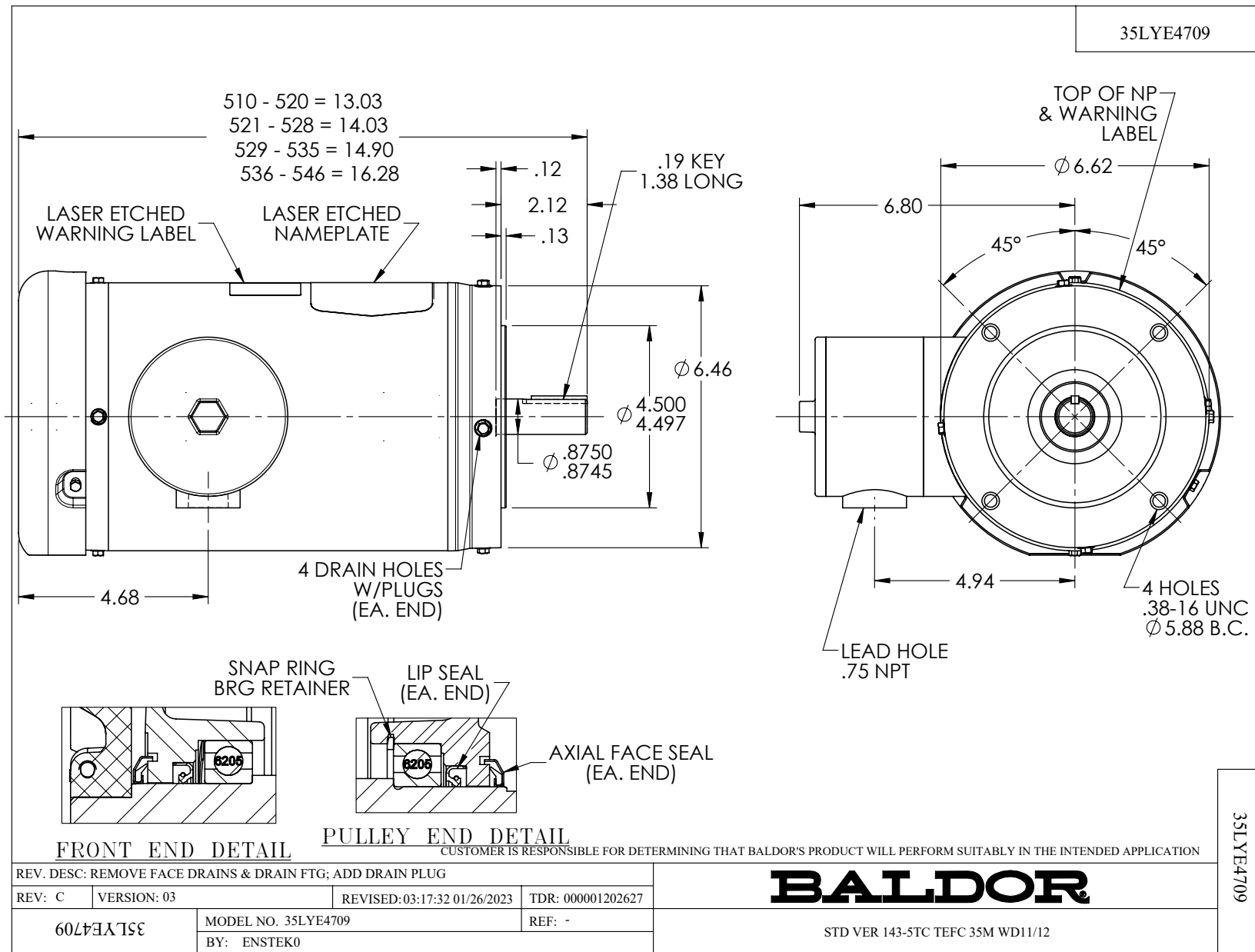
Typical performance - not guaranteed values.

1.5 HP 3 PH 60 HZ 1770 RPM 460 V 3526M

TORQUES (LB-FT): PO=18.92 PU=9.99 LR=12.27 LRA=19.68



4/16/2024 ACPERF, record # 87353



CD0005



LOW VOLTAGE
(2Y)



LINE

HIGH VOLTAGE
(1Y)



LINE

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			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
S00000		FILE: AAA00005140	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS