BALDOR • RELIANCE

Customer information packet

VFSWDM3559-E-G

3HP, 3470RPM, 3PH, 60HZ, 56C, 3546M, TEFC, F1
Class - None
Division - Not Applicable

12/22/2025 11:14:20 PM

Specifications

Enclosure	TEFC
Frame	56C
Frame Material	Stainless Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	3.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	CSA EEV
	UR
	NEMA_PREMIUM
	NEMA PREMIUM
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	3.600 A @ 460.0 V
	7.200 A @ 230.0 V
	7.700 A @ 208.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater

Part detail

Revision	E
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	35WGR930
Layout	35LY-000-654
Eff. date	05-12-2023
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	10-01-2021

High Voltage Full Load Amps	3.6 a
Insulation Class	H
Inverter Code	Inverter Duty
KVA Code	P
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3546M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	16.21 IN
Power Factor	90
Product Family	WD All SS Encapsulated
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.625 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Speed	3470 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

NP4292A01									
CAT.NO.	VFSWDM3559-E-G								
SPEC.	35-0000-1318								
HP	3								
VOLTS	230/460								
AMP	7.2/3.6								
RPM	3470								
FRAME	56C	**HZ**	60			**PH**	3		
SER.F.	1.15	**CODE**	P	**DES**	A	**CLASS**	H		
NEMA-NOM-EFF	86.5	**PF**	90						
RATING	40C AMB-CONT								
CC	010A	**USABLE AT 208V**				N/A			
DE	6205	**ODE**	6205						
ENCL	TEFC	**SN**							
	4:1CT, 10:1VT, IP69								

AC Induction Motor Performance Data
Record # 55293
Typical performance - not guaranteed values

Winding: 35WGR930-R011	**Type:** 3546M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			3	**Full Load Torque**	4.5 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			7.2/3.6	**Breakdown Torque**	17.2 LB-FT
R.P.M.			3470	**Pull-up Torque**	10.5 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	17 LB-FT
NEMA Design Code	A	**KVA Code**	P	**Starting Current**	48.3 A
Service Factor (S.F.)			1.15	**No-load Current**	1.25 A
NEMA Nom. Eff.	86.5	**Power Factor**	90	**Line-line Res. @ 25ºC**	3.47 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	63°C
S.F. Amps				**Temp. Rise @ S.F. Load**	74°C
				Locked-rotor Power Factor	42.3
				Rotor inertia	0.127 LB-FT2

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	59	79	87	90	91	90	91
Efficiency	80.1	86.4	87.3	86.9	85.7	83.9	86.2
Speed	3567	3541	3510	3479	3443	3403	3457
Line amperes	1.53	2.07	2.78	3.55	4.42	5.4	4.07

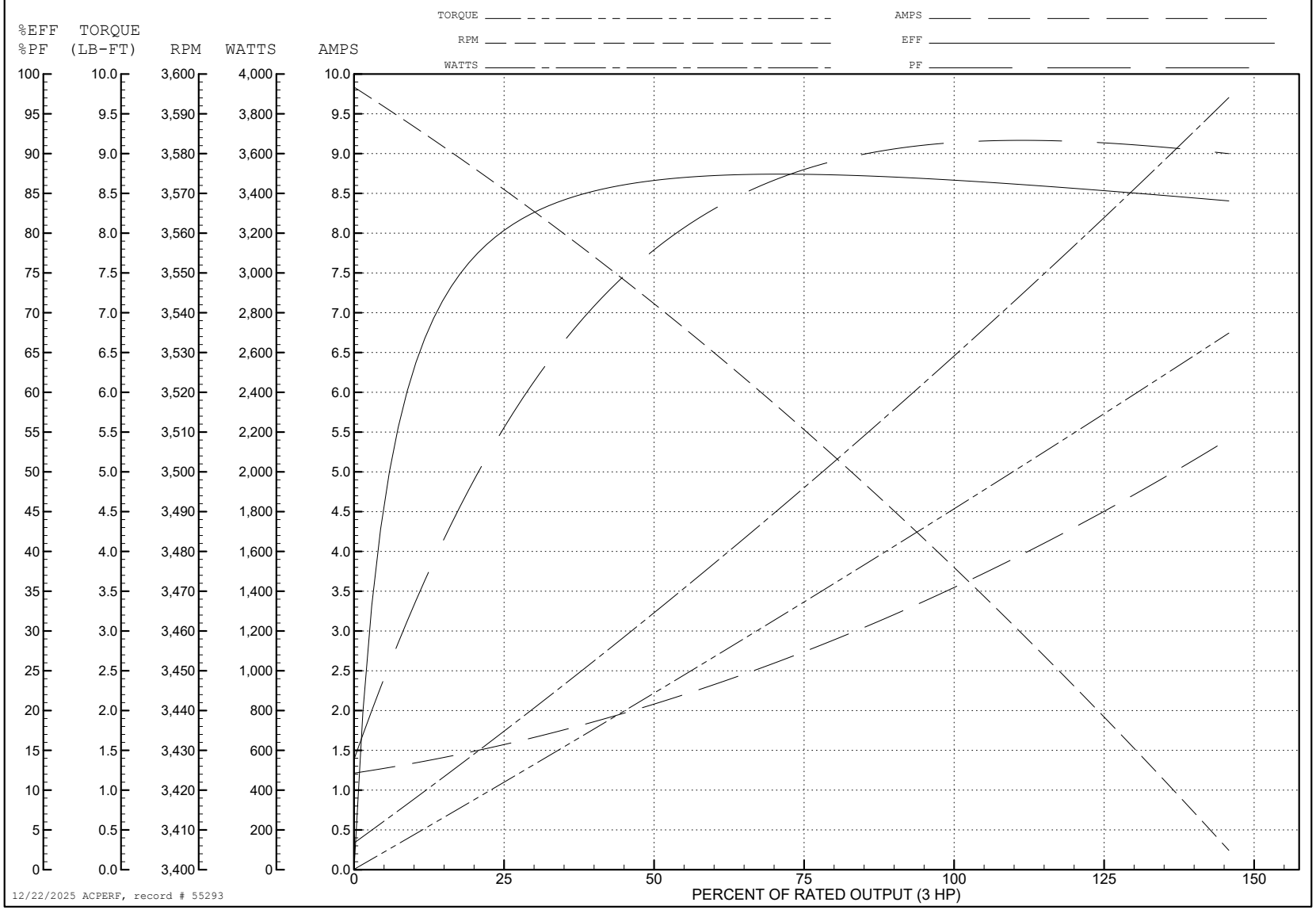
ABB Motors and Mechanical Inc.

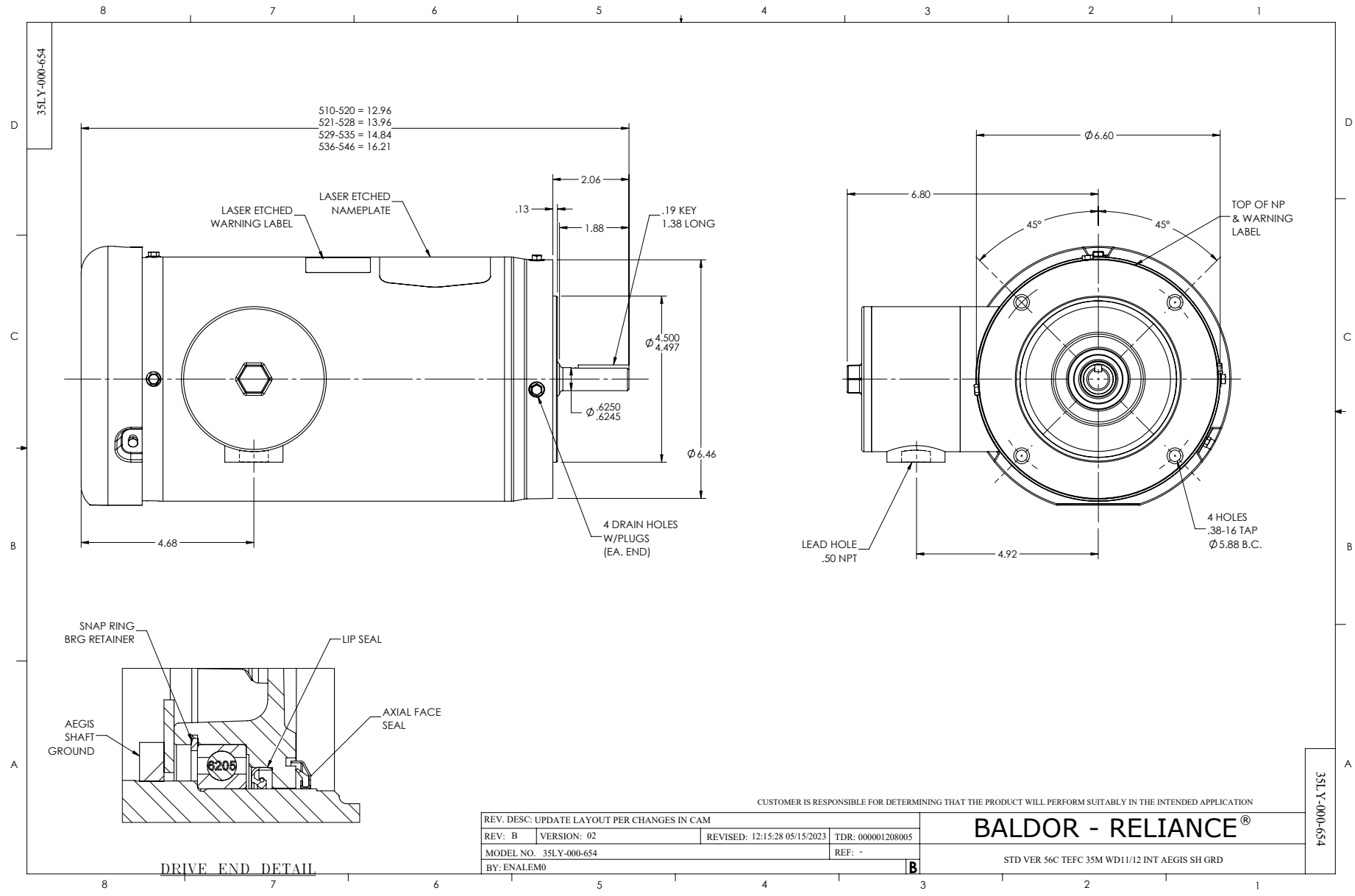
WINDING # 35WGR930

3 HP 3 PH 60 HZ 3470 RPM 460 V 3546M

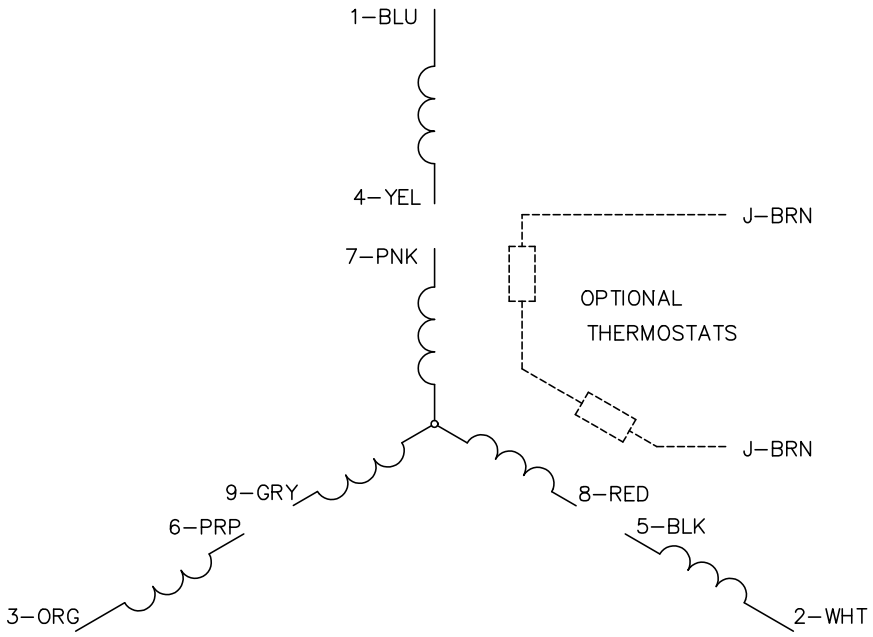
Typical performance - not guaranteed values.

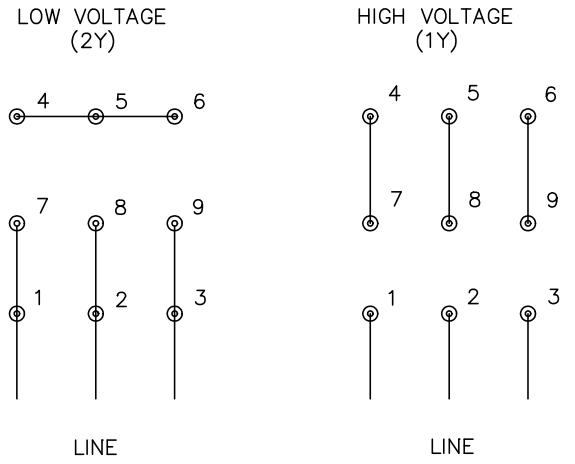
TORQUES(LB-FT): PO=17.2 PU=10.5 LR=17 LRA=48.3




35LY-000-654
510-520 = 12.96
521-528 = 13.96
529-535 = 14.84
536-546 = 16.21
2.06
.13
1.88
.19 KEY
1.38 LONG
LASER ETCHED
WARNING LABEL
LASER ETCHED
NAMEPLATE
Ø 4.500
4.497
Ø .6250
.6245
Ø 6.46
4.68
4 DRAIN HOLES
W/PLUGS
(EA. END)
Ø 6.60
6.80
45°
45°
TOP OF NP
& WARNING
LABEL
LEAD HOLE
.50 NPT
4.92
4 HOLES
.38-16 TAP
Ø 5.88 B.C.
SNAP RING
BRG RETAINER
LIP SEAL
AXIAL FACE
SEAL
AEGIS
SHAFT
GROUND
6205
DRIVE END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: UPDATE LAYOUT PER CHANGES IN CAM
REV: B
VERSION: 02
REVISED: 12:15:28 05/15/2023
TDR: 000001208005
MODEL NO. 35LY-000-654
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
STD VER 56C TEFC 35M WD11/12 INT AEGIS SH GRD
35LY-000-654

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