



Customer information packet

VFSWDM3545-4E

1HP, 3450RPM, 3PH, 60HZ, 56C, 3520M, TENV, F1, N

Class - None

Division - Not Applicable

Specifications

Enclosure	TENV
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	1.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	WEEE CURUSEEV 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	1.400 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	82.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	1.4 a
Insulation Class	H
Inverter Code	Inverter Duty

Part detail

Revision	A
Type	AC
Mech. spec.	35E4656
Base	
Status	PRD/A
Elec. spec.	35WGK980
Layout	35LYE4656
Eff. date	09-13-2024
CD Diagram	CD0006
Poles	02
Leads	3#18
Proprietary	False
Created date	05-22-2024

KVA Code	N
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	5400 rpm
Motor Finish	UNPAINTED
Motor Lead Quantity/Wire Size	3 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3520M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	11.78 IN
Power Factor	82
Product Family	WD All SD Non-Encapsulated
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	Y
Service Factor	1.15
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3450 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

AC Induction Motor Performance Data

Record # 105463

Typical performance - not guaranteed values

Winding: 35WGK980-R001			Type: 3520M		Enclosure: TENV			
Nameplate Data			460 V, 60 Hz: Single Voltage Motor					
Rated Output (HP)		1	Full Load Torque		1.52 LB-FT			
Volts		460	Start Configuration		direct on line			
Full Load Amps		1.4	Breakdown Torque		8.51 LB-FT			
R.P.M.		3450	Pull-up Torque		6.16 LB-FT			
Hz	60	Phase	3	Locked-rotor Torque		8.01 LB-FT		
NEMA Design Code		B	KVA Code	N	Starting Current		15.1 A	
Service Factor (S.F.)		1.15	No-load Current		0.722 A			
NEMA Nom. Eff.		82.5	Power Factor		82	Line-line Res. @ 25°C		10.85 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		91°C		
S.F. Amps				Temp. Rise @ S.F. Load		105°C		
				Locked-rotor Power Factor		51.3		
				Rotor inertia		0.0553 lb-ft²		

Load Characteristics 460 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	44	64	76	82	86	88	84
Efficiency	67.8	79	82.4	83.4	83.4	82.5	83.4
Speed	3566.5	3536.9	3507.4	3477.1	3442.7	3405	3456
Line amperes	0.791	0.953	1.15	1.38	1.63	1.93	1.53

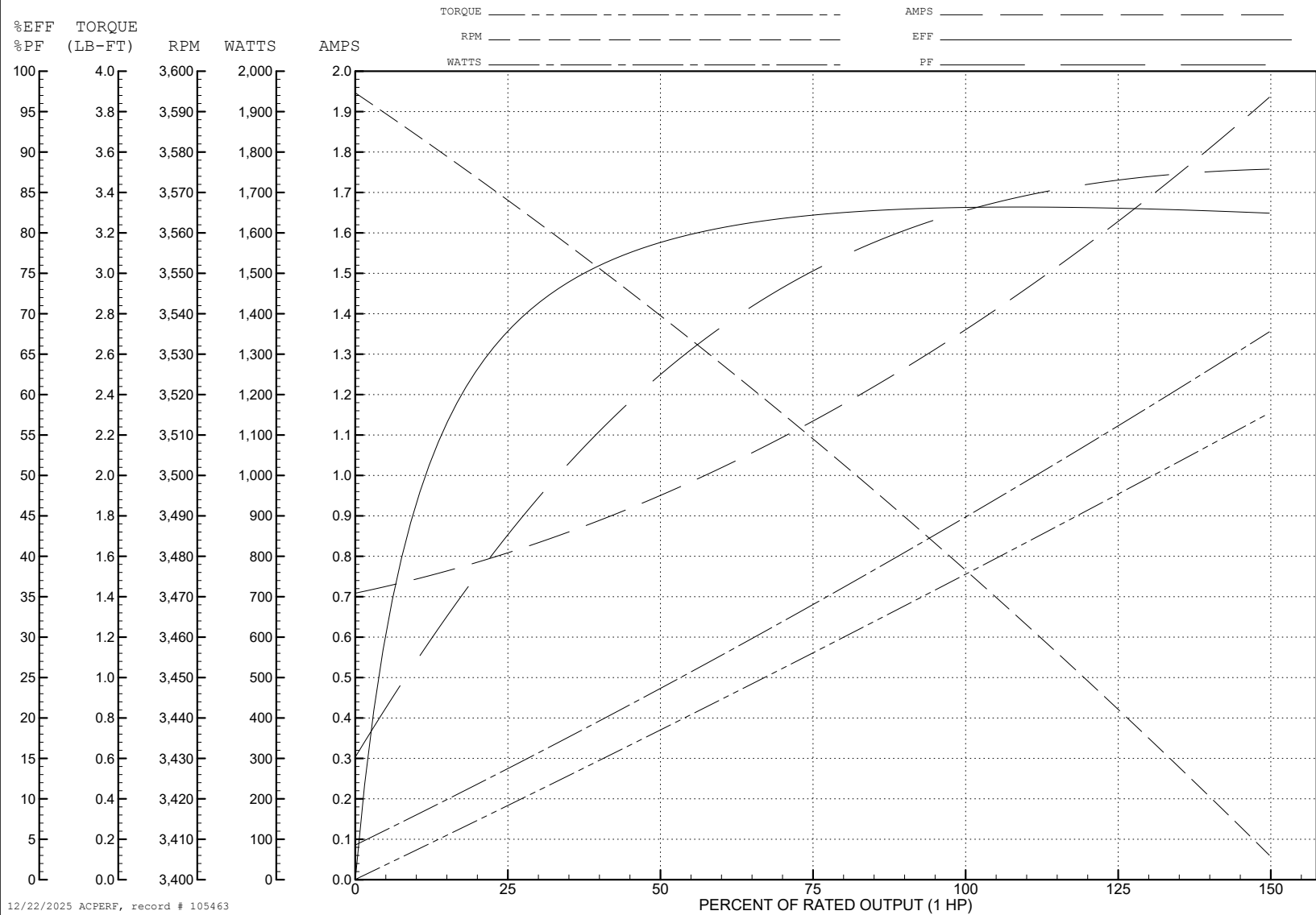
ABB Motors and Mechanical Inc.

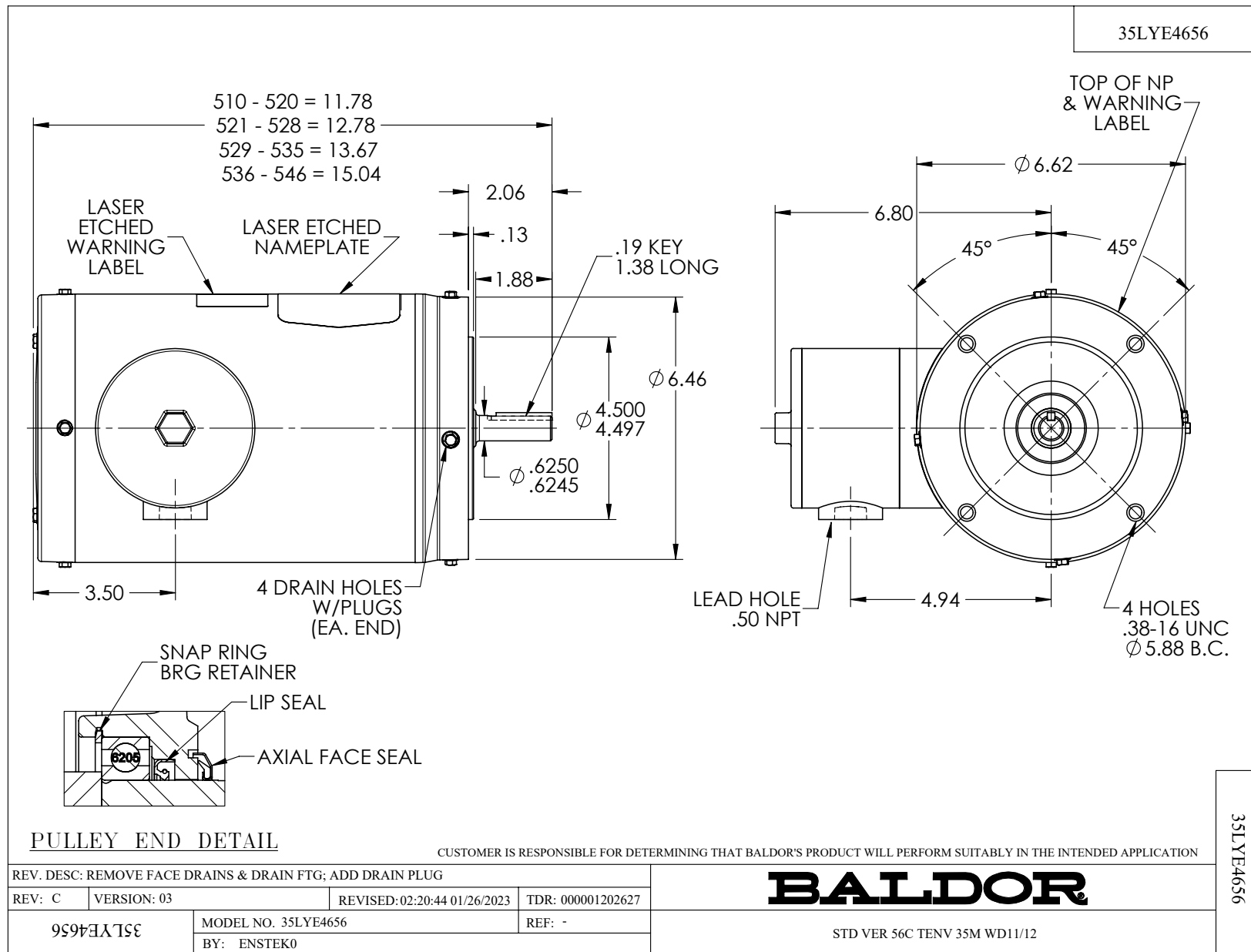
WINDING # 35WGK980

Typical performance - not guaranteed values.

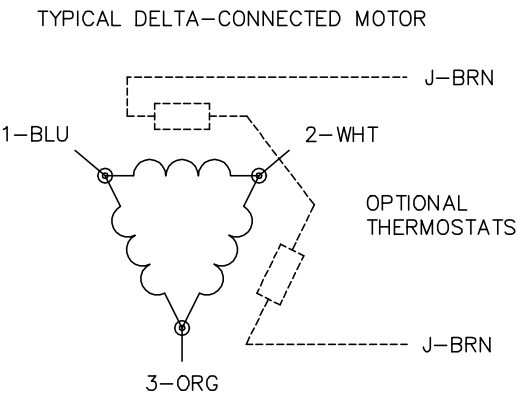
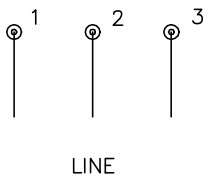
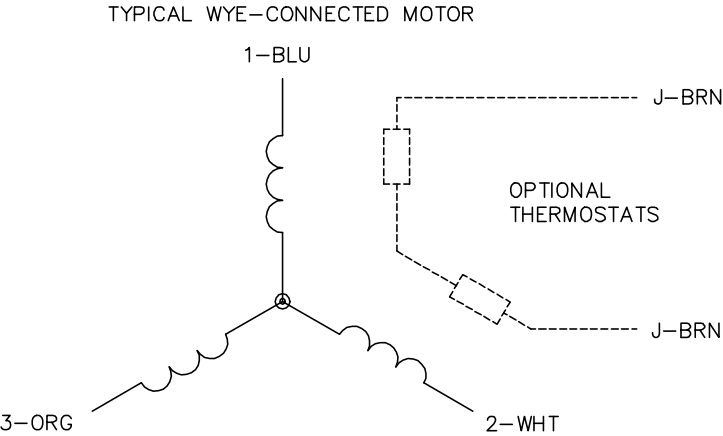
1 HP 3 PH 60 HZ 3450 RPM 460 V 3520M

TORQUES (LB-FT): PO=8.51 PU=6.16 LR=8.01 LRA=15.1





CD0006



- NOTES:
- 1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
 - 2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
 - 3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
 - 4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
 - 5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

REV. DESC: ADD CLASS CONN00000007		
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MTL: —		

BALDOR - RELIANCE®

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

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