

ABB BALDOR RELIANCE III

Customer information packet

CFSWDM3613T-5E

5HP, 3500RPM, 3PH, 60HZ, 184TC, 3634M, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	184TC
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	5.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	NEMA PREMIUM CSA UR
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	4.500 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	4.5 a
Insulation Class	H

Part Detail

Revision	L
Type	AC
Mech. spec.	36R552
Base	
Status	PRD/A
Elec. spec.	36WGT421
Layout	36LYR552
Eff. date	06-19-2023
CD Diagram	CD0006
Poles	02
Leads	3#16
Proprietary	False
Created date	08-01-2017

Inverter Code	Inverter Ready
KVA Code	L
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3634M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	17.39 IN
Power Factor	95
Product Family	WD All SS Encapsulated
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	1.125 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	3500 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

NP4427AAA02												
CAT #	CFSWDM3613T-5E					LBS						
SPEC	36R552T421G2					ENCL	TEFC					
SER #						CC	010A	IP	69			
HP	5					MAG CUR	1.4					
VOLTS	575					NEMA NOM. EFF				89.5		
AMPS	4.5					PF	95					
RATING	40C AMB-CONT											
RPM	3500					MAX RPM	5000					
FRAME	184TC	HZ	60		CODE	L	CLASS	H				
SER.F.	1.15	SF AMP					PH	3	DES	B		
DE	6206		ODE	6206								
LUBRICATION	POLYREX EM											
ID LOGO	INVERTER TYPE		VPWM		CHP	60	TO	90		1.5:1		
ID LOGO	WK2	0.15	CT	3	TO	60	20:1					
ID LOGO	SL HZ	2	VT		TO	60	1000:1					
						QR						
YR												

AC Induction Motor Performance Data

Record # 29658

Typical performance - not guaranteed values

Winding: 36WGT421-R001			Type: 3634M		Enclosure: TEFC		
Nameplate Data			575 V, 60 Hz: Single Voltage Motor				
Rated Output (HP)		5	Full Load Torque		7.49 LB-FT		
Volts		575	Start Configuration		direct on line		
Full Load Amps		4.5	Breakdown Torque		40.7 LB-FT		
R.P.M.		3500	Pull-up Torque		29.3 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		32.5 LB-FT	
NEMA Design Code		B	KVA Code	L	Starting Current		52 A
Service Factor (S.F.)		1.15	No-load Current		1.44 A		
NEMA Nom. Eff.		89.5	Power Factor	95	Line-line Res. @ 25°C		3.05 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		67°C	
S.F. Amps				Temp. Rise @ S.F. Load		81°C	
				Locked-rotor Power Factor		44	
				Rotor inertia		0.152 LB-FT2	

Load Characteristics 575 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	60	81	88	92	92	93	92
Efficiency	83.9	89	90	89.7	88.9	87.5	89.2
Speed	3568	3540	3512	3483	3451	3417	3464
Line amperes	1.9	2.61	3.56	4.5	5.61	6.72	5.17

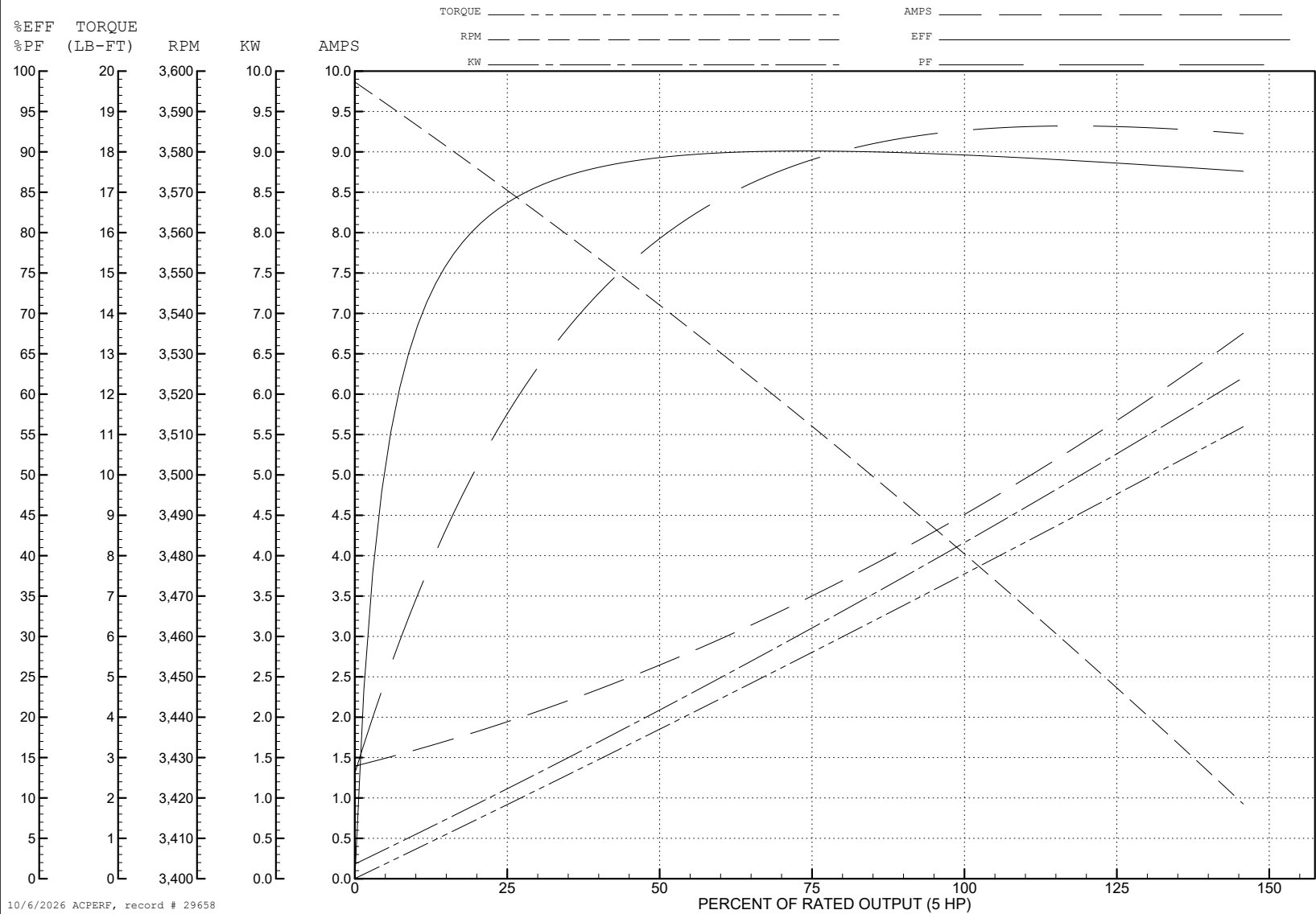
ABB Motors and Mechanical Inc.

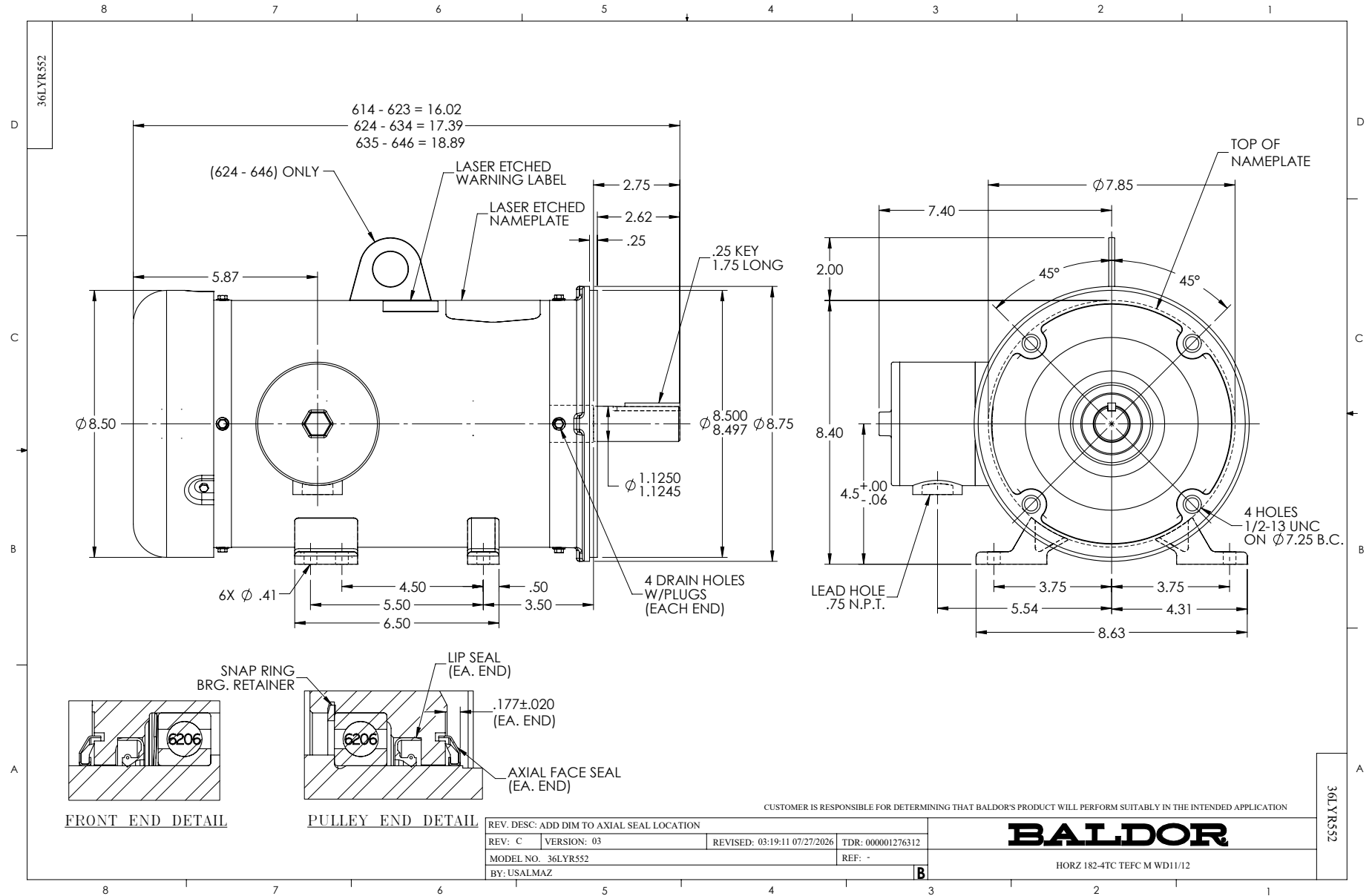
WINDING # 36WGT421

Typical performance - not guaranteed values.

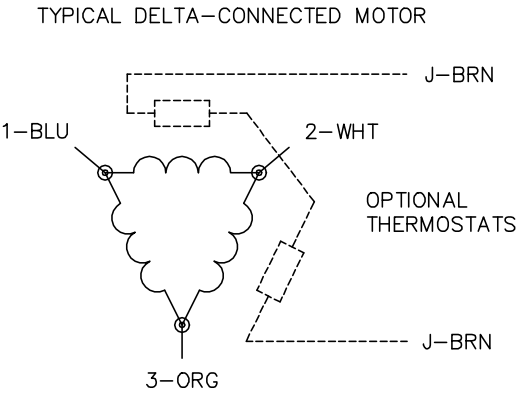
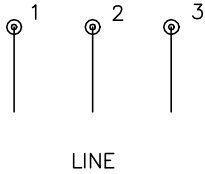
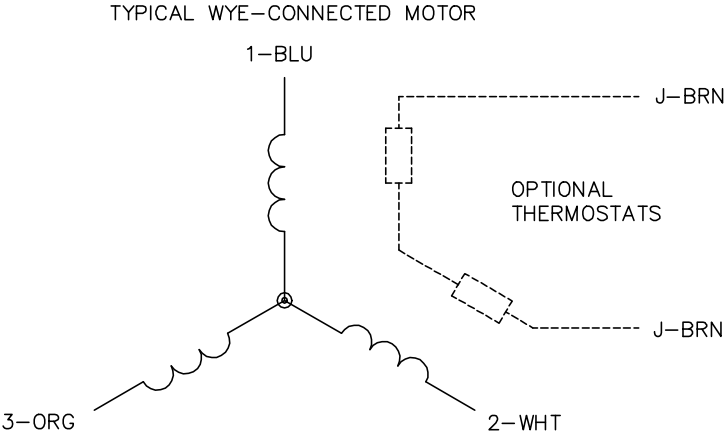
5 HP 3 PH 60 HZ 3500 RPM 575 V 3634M

TORQUES (LB-FT) : PO=40.7 PU=29.3 LR=32.5 LRA=52





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		
REV. LTR: E	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\141	REVISED: 10: 24: 49 02/19/2019	BY: ENBRIRO
MTL: —		

BALDOR - RELIANCE®

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

SH 1 of 1