

ABB BALDOR RELIANCE III

Customer information packet

CFSWDNM3555T-4E

2HP, 3480RPM, 3PH, 60HZ, 143TC, 3546M, TENV, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TENV
Frame	143TC
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	2.000 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	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	2.400 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	88.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	2.4 a
Insulation Class	H
Inverter Code	Inverter Duty

Part Detail

Revision	B
Type	AC
Mech. spec.	35E4742
Base	
Status	PRD/A
Elec. spec.	35WGK981
Layout	35LYE4742
Eff. date	11-01-2024
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	3546M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	15.09 IN
Power Factor	89
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	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3480 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 #	CFSWDNM3555T-4E					WGT		LBS						
SPEC	35E4742K981					ENCL	TENV							
SER #						CC	010A	IP	69					
HP	2	MAG CUR				.85								
VOLTS	460						NEMA NOM. EFF					88.5		
AMPS	2.4						PF	89						
RATING	40C AMB-CONT													
RPM	3480					MAX RPM			5400					
FRAME	145TC	HZ	60			CODE	N	CLASS	H					
SER.F.	1.15	SF AMP					PH	3	DES	B				
DE	6205	ODE		6205										
LUBRICATION	POLYREX EM													
ID LOGO	INVERTER TYPE				VPWM		CHP	60	TO	90	1.5:1			
ID LOGO	WK2	0.127	CT	15	TO	60	4:1							
ID LOGO	SL HZ	2	VT	3	TO	60	20:1							

AC Induction Motor Performance Data

Record # 105464

Typical performance - not guaranteed values

Winding: 35WGK981-R001				Type: 3546M		Enclosure: TENV	
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		2		Full Load Torque		3.038 LB-FT	
Volts		460		Start Configuration		direct on line	
Full Load Amps		2.4		Breakdown Torque		17.3 LB-FT	
R.P.M.		3480		Pull-up Torque		6.76 LB-FT	
Hz		60 Phase		Locked-rotor Torque		14.8 LB-FT	
NEMA Design Code		B KVA Code		Starting Current		29.7 A	
Service Factor (S.F.)		1.15		No-load Current		0.876 A	
NEMA Nom. Eff.		88.5 Power Factor		Line-line Res. @ 25°C		5.3448 Ω	
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		104°C	
S.F. Amps				Temp. Rise @ S.F. Load		128°C	
				Locked-rotor Power Factor		42.9	
				Rotor inertia		0.127 lb-ft²	

Load Characteristics 460 V, 60 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	54	75	85	89	91	93	90
Efficiency	84.9	89.3	89.9	89.2	88	86.5	88.5
Speed	3568.9	3541.4	3511.5	3479.4	3445.1	3406.6	3459
Line amperes	1.06	1.41	1.86	2.37	2.92	3.52	2.7

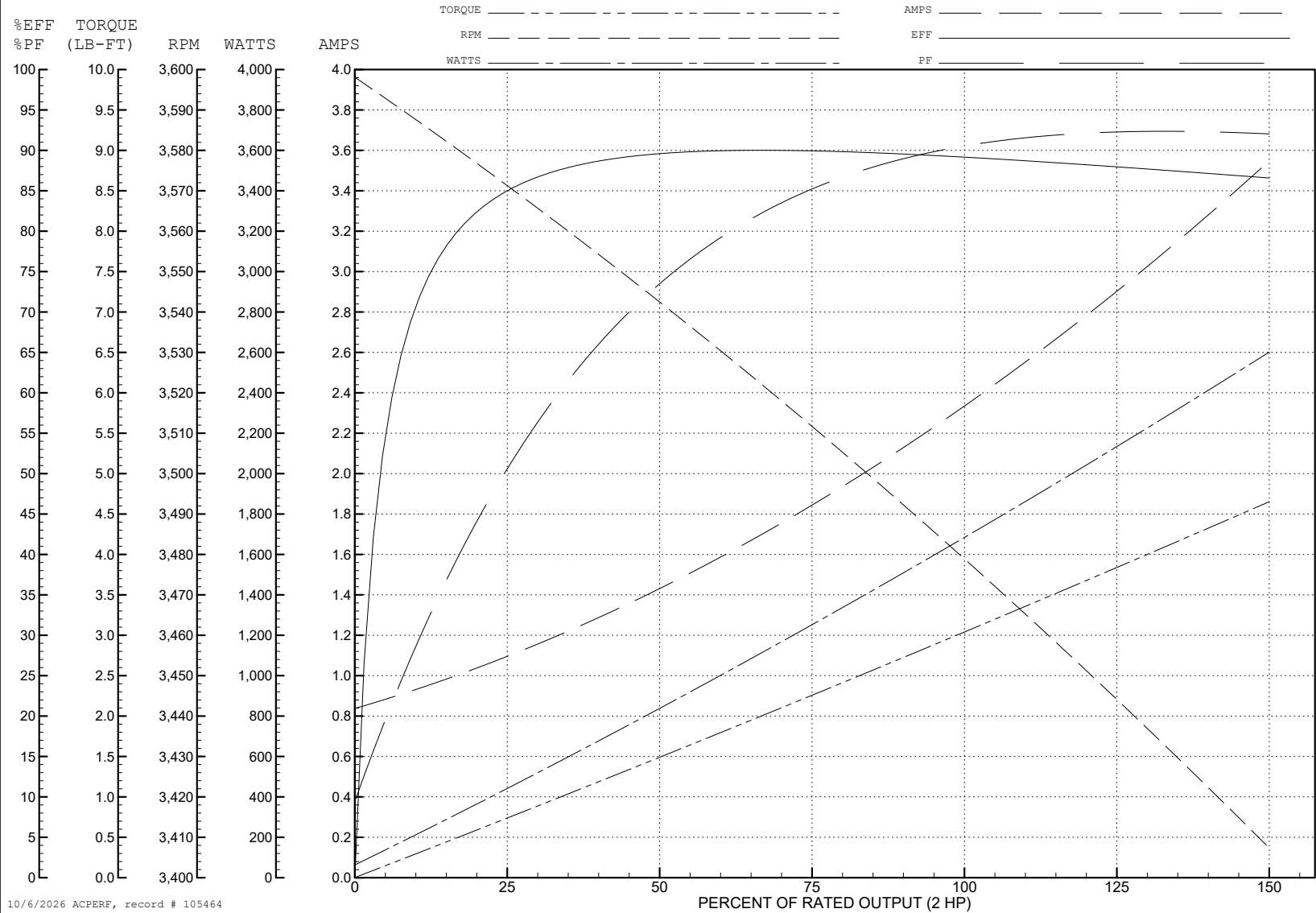
ABB Motors and Mechanical Inc.

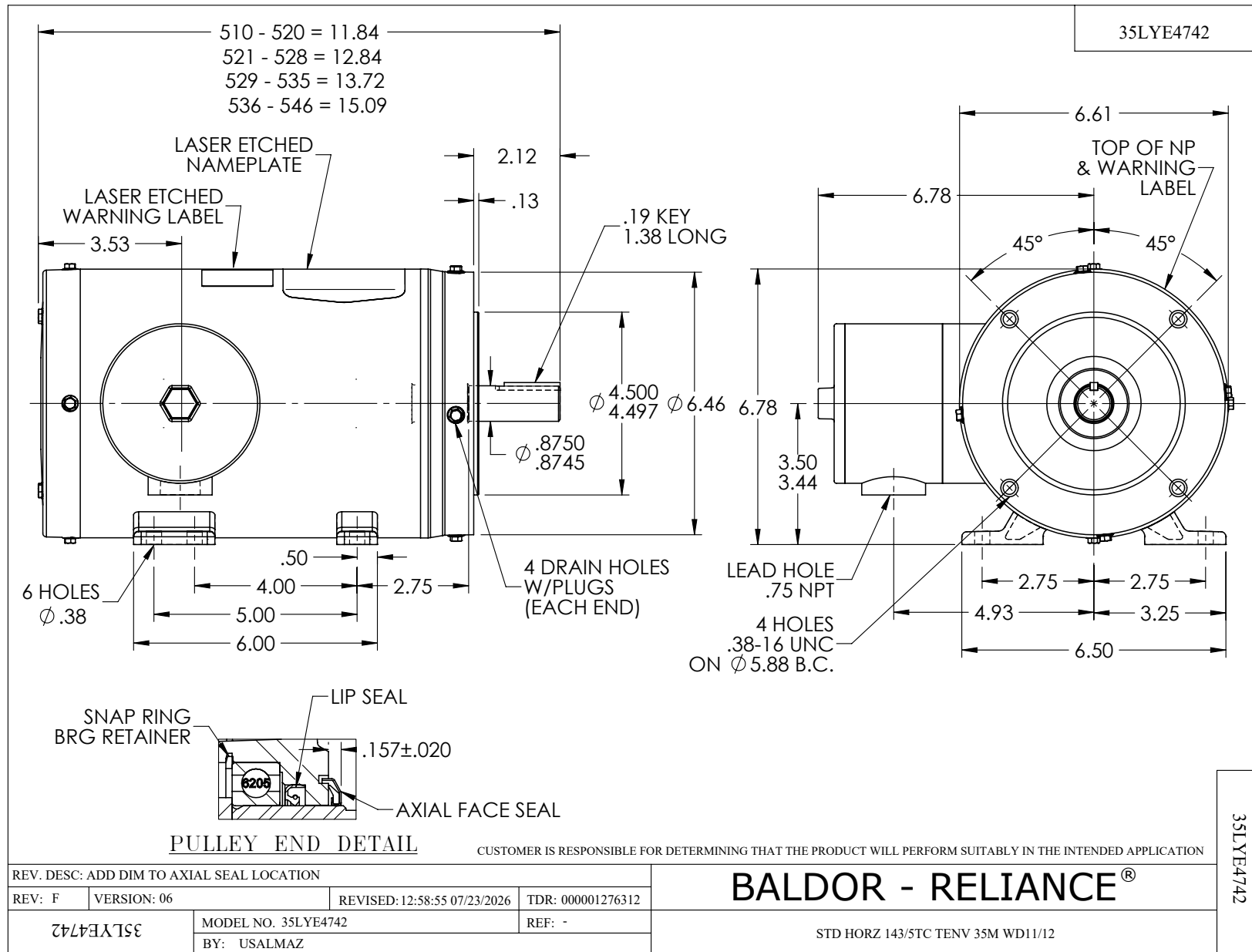
WINDING # 35WGK981

Typical performance - not guaranteed values.

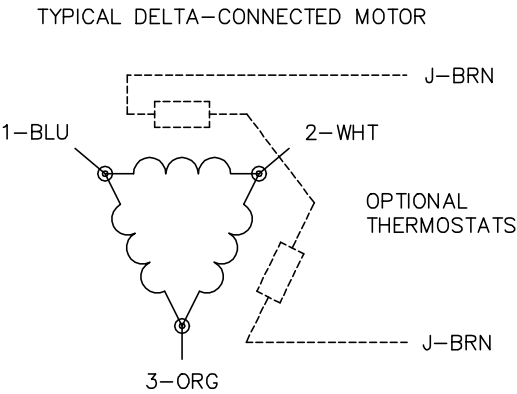
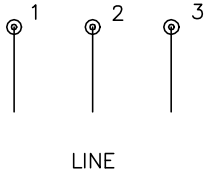
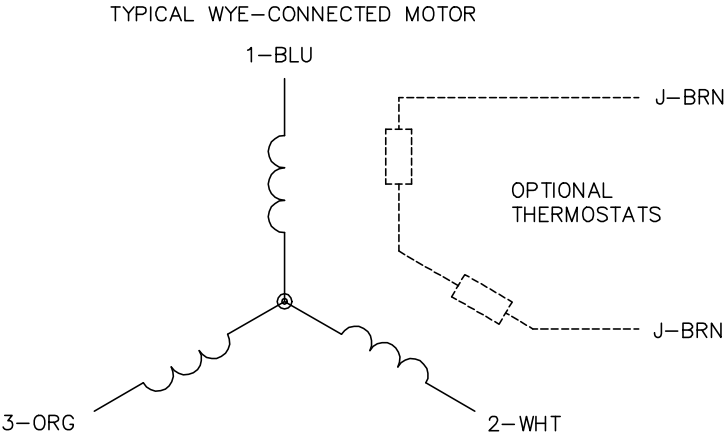
2 HP 3 PH 60 HZ 3480 RPM 460 V 3546M

TORQUES (LB-FT): PO=17.3 PU=6.76 LR=14.8 LRA=29.7





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

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