

ABB BALDOR RELIANCE III

Customer information packet

CFSWDM3710T-5E

7.5HP, 1770RPM, 3PH, 60HZ, 213TC, 3740M, TEFC

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	213TC
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	7.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	CSA CSA EEV NEMA PREMIUM 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	7.600 A @ 575.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	7.6 a
Insulation Class	H

Part Detail

Revision	M
Type	AC
Mech. spec.	37Q242
Base	
Status	PRD/A
Elec. spec.	37WGS500
Layout	37LYQ242
Eff. date	02-12-2026
CD Diagram	CD0006
Poles	04
Leads	3#14
Proprietary	False
Created date	10-11-2018

Inverter Code	Inverter Ready
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	3 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3740M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	20.68 IN
Power Factor	81
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	1.375 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

NP4427AAA02														
CAT #	CFSWDM3710T-5E					WGT		LBS						
SPEC	37Q242S500G2					ENCL	TEFC							
SER #						CC	010A		IP	69				
HP	7.5		MAG CUR			3.4								
VOLTS	575					NEMA NOM. EFF				91.7				
AMPS	7.6					PF	81							
RATING	40C AMB-CONT													
RPM	1770					MAX RPM		2700						
FRAME	213TC	HZ	60		CODE	J	CLASS		H					
SER.F.	1.15	SF AMP	8.6		PH	3	DES		A					
DE	6307		ODE		6307									
LUBRICATION	POLYREX EM													
ID LOGO	INVERTER TYPE				VPWM		CHP	60	TO		90	1.5:1		
ID LOGO	WK2	0.98	CT	30	TO	60	2:1							
ID LOGO	SL HZ	1	VT	6	TO	60	10:1							

AC Induction Motor Performance Data

Record # 42415

Typical performance - not guaranteed values

Winding: 37WGS500-R001			Type: 3740M		Enclosure: TEFC		
Nameplate Data			575 V, 60 Hz: Single Voltage Motor				
Rated Output (HP)		7.5	Full Load Torque		22.25 LB-FT		
Volts		575	Start Configuration		direct on line		
Full Load Amps		7.6	Breakdown Torque		71.09 LB-FT		
R.P.M.		1770	Pull-up Torque		38.63 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		46.45 LB-FT	
NEMA Design Code		A	KVA Code	J	Starting Current		58.7 A
Service Factor (S.F.)		1.15	No-load Current		3.44 A		
NEMA Nom. Eff.		91.7	Power Factor	81	Line-line Res. @ 25°C		2.18 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		71°C	
S.F. Amps				Temp. Rise @ S.F. Load		87°C	
				Locked-rotor Power Factor		37.4	
				Rotor inertia		0.984 LB-FT2	

Load Characteristics 575 V, 60 Hz, 7.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	43	65	76	81	83	84	82
Efficiency	86.5	90.7	91.8	91.2	90.5	89.3	90.8
Speed	1793	1786	1778	1770	1761	1751	1764
Line amperes	3.84	4.78	6.1	7.58	9.28	11.19	8.62

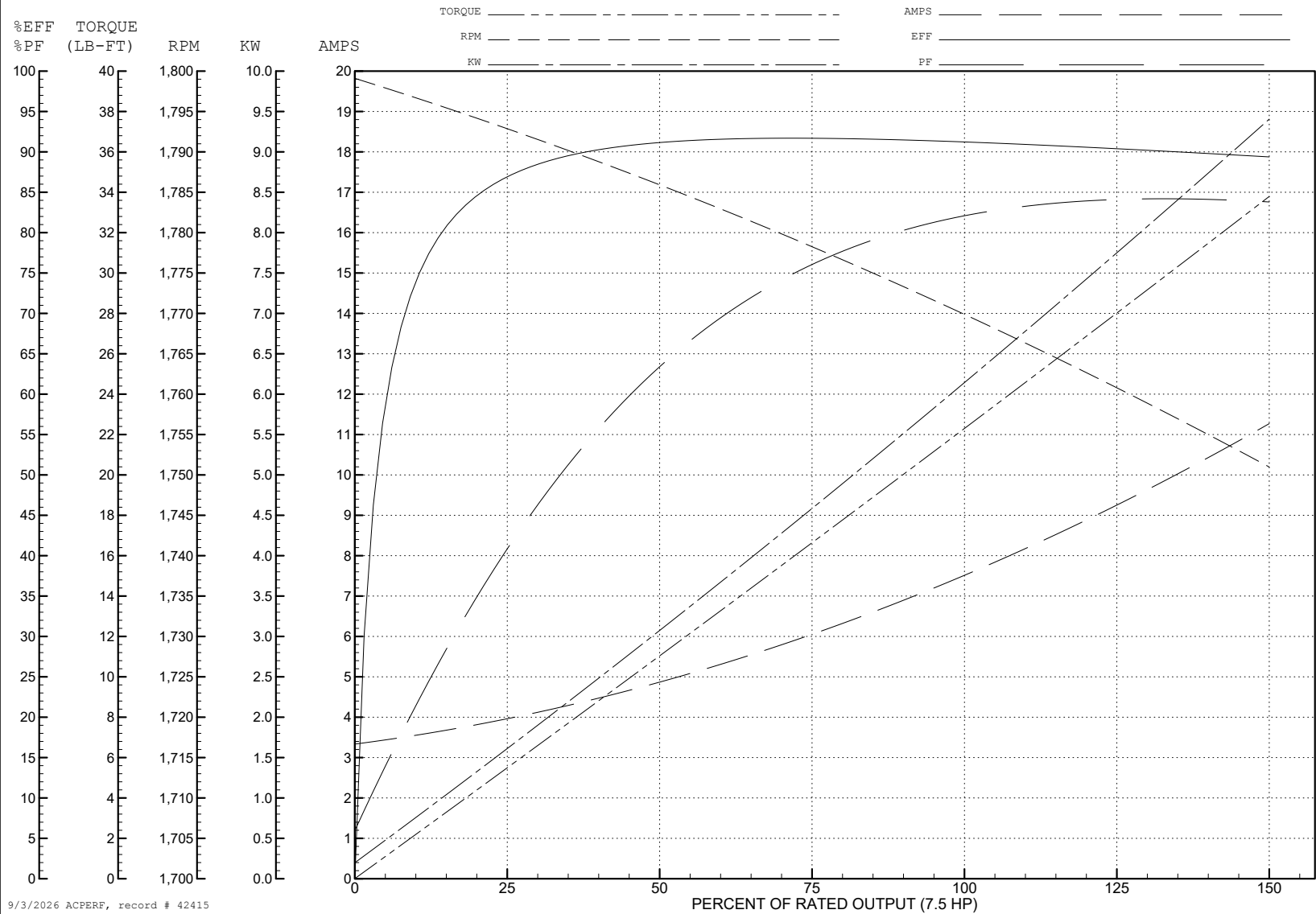
ABB Motors and Mechanical Inc.

WINDING # 37WGS500

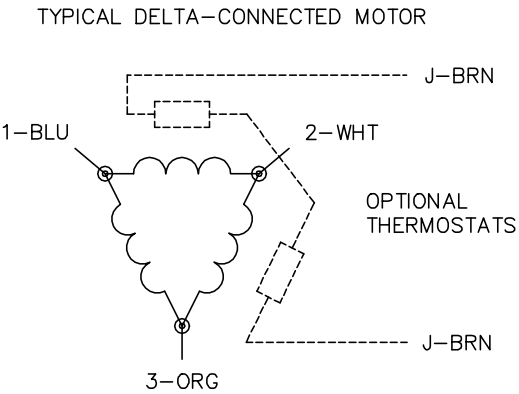
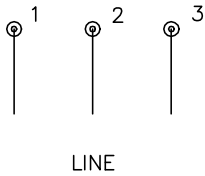
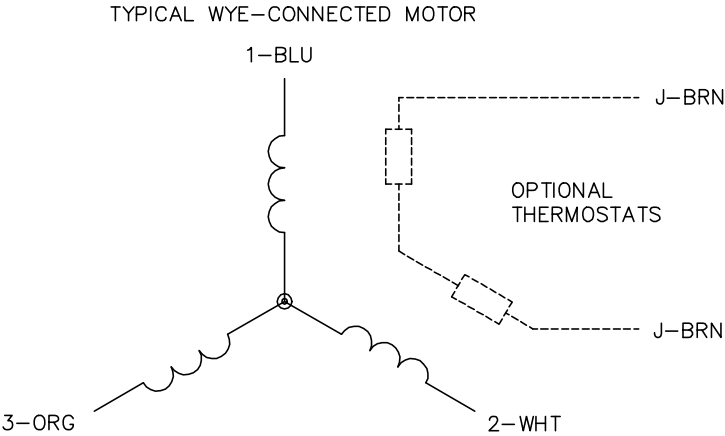
Typical performance - not guaranteed values.

7.5 HP 3 PH 60 HZ 1770 RPM 575 V 3740M

TORQUES (LB-FT) : PO=71.09 PU=38.63 LR=46.45 LRA=58.7



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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