

ABB BALDOR RELIANCE III

Customer information packet

CFSWDM3704T-E

3HP, 1170RPM, 3PH, 60HZ, 213TC, 3748M, TEFC, F1

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	3.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 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	4.500 A @ 460.0 V 9.000 A @ 230.0 V
Design Code	A
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

Part Detail

Revision	Q
Type	AC
Mech. spec.	37Q242
Base	
Status	PRD/A
Elec. spec.	37WGR922
Layout	37LYQ242
Eff. date	09-22-2023
CD Diagram	CD0005
Poles	06
Leads	9#14
Proprietary	False
Created date	08-01-2017

Heater Indicator	No Heater
High Voltage Full Load Amps	4.5 a
Insulation Class	H
Inverter Code	Inverter Ready
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3748M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	21.37 IN
Power Factor	69
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 Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1170 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

NP4427AAA01

Page 5 of 9

AC Induction Motor Performance Data

Record # 58003

Typical performance - not guaranteed values

Winding: 37WGR922-R001				Type: 3748M		Enclosure: TEFC					
Nameplate Data				460 V, 60 Hz: High Voltage Connection							
Rated Output (HP)		3		Full Load Torque		13.5 LB-FT					
Volts		230/460		Start Configuration		direct on line					
Full Load Amps		9/4.5		Breakdown Torque		43.6 LB-FT					
R.P.M.		1170		Pull-up Torque		27.5 LB-FT					
Hz		60 Phase		3		Locked-rotor Torque		33.9 LB-FT			
NEMA Design Code		A		KVA Code		K		Starting Current		33.6 A	
Service Factor (S.F.)		1.15						No-load Current		2.55 A	
NEMA Nom. Eff.		89.5		Power Factor		69		Line-line Res. @ 25°C		2.4462 Ω	
Rating - Duty		40C		AMB-CONT				Temp. Rise @ Rated Load		44°C	
S.F. Amps								Temp. Rise @ S.F. Load		54°C	
								Locked-rotor Power Factor		21.5	

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	32	50	62	69	73	76	71
Efficiency	83.5	89.1	90.2	90.1	89.3	88.1	89.6
Speed	1193.4	1186.3	1178.9	1170.5	1161.2	1151.2	1165
Line amperes	2.73	3.17	3.77	4.51	5.37	6.32	5.03

ABB Motors and Mechanical Inc.

WINDING # 37WGR922

Typical performance - not guaranteed values.

3 HP 3 PH 60 HZ 1170 RPM 460 V 3748M

TORQUES (LB-FT): PO=43.6 PU=27.5 LR=33.9 LRA=33.6





