

ABB BALDOR RELIANCE III

Customer information packet

CFSWDM3708T-E

5HP, 1165RPM, 3PH, 60HZ, 3756M, N

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	5.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 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	7.400 A @ 460.0 V 15.500 A @ 208.0 V 14.800 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 Shaft Indicator	None

Part Detail

Revision	D
Type	AC
Mech. spec.	37Q242
Base	
Status	PRD/A
Elec. spec.	37WGZ663
Layout	37LYQ242
Eff. date	02-16-2026
CD Diagram	CD0005
Poles	06
Leads	9#14
Proprietary	False
Created date	01-05-2021

Heater Indicator	No Heater
High Voltage Full Load Amps	7.4 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	R
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3756M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	22.12 IN
Power Factor	71
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	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	1165 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

NP4427AAA01												
CAT #	CFSWDM3708T-E					WT	179	LBS				
SPEC	37Q242Z663G1					ENCL	TEFC					
SER #						CC	010A	IP	69			
HP	5	MAG CUR				8/4						
VOLTS	230/460					NEMA NOM. EFF				89.5		
AMPS	14.8/7.4					PF	71					
RATING	40C AMB-CONT											
RPM	1165					MAX RPM		1800				
FRAME	213TC	HZ	60	CODE		K	CLASS		H			
SER.F.	1.15	SF AMP	16/8	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	1.39	CT	30	TO	60	2:1					
ID LOGO	SL HZ	1.8	VT	6	TO	60	10:1					
						QR						
YR												

AC Induction Motor Performance Data

Record # 86054

Preliminary Data Sheet

Winding: 37WGZ663-R001			Type: 3756M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		5	Full Load Torque		22.57 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		14.8/7.4	Breakdown Torque		77.17 LB-FT		
R.P.M.		1165	Pull-up Torque		44.95 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		51.14 LB-FT	
NEMA Design Code		A	KVA Code	R	Starting Current		53.3 A
Service Factor (S.F.)		1.15	No-load Current		3.95 A		
NEMA Nom. Eff.		89.5	Power Factor	71	Line-line Res. @ 25°C		1.43 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		55°C
S.F. Amps					Temp. Rise @ S.F. Load		67°C
					Locked-rotor Power Factor		21.1
					Rotor inertia		1.39 lb-ft²

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	33	52	64	71	75	76	73
Efficiency	84	89.5	90.1	90	89.1	87.3	89.5
Speed	1193	1185	1176	1167	1157	1144	1161
Line amperes	4.26	4.99	6.11	7.38	8.81	10.57	8.24

ABB Motors and Mechanical Inc.

WINDING # 37WGZ663

Typical performance - not guaranteed values.

5 HP 3 PH 60 HZ 1165 RPM 460 V 3756M

TORQUES (LB-FT) : PO=77.17 PU=44.95 LR=51.14 LRA=53.3





