

ABB BALDOR RELIANCE III

Customer information packet

ECTM3708T

5HP, 1165RPM, 3PH, 60HZ, 213TZ, 3746M, TEAO, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEAO
Frame	213TZ
Frame Material	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	C UR US
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	15.600 A @ 208.0 V 15.600 A @ 230.0 V 7.800 A @ 460.0 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
Heater Indicator	No Heater
High Voltage Full Load Amps	7.8 a
Insulation Class	F

Part Detail

Revision	-
Type	AC
Mech. spec.	37Q128
Base	
Status	PRD/A
Elec. spec.	37WGZ714
Layout	37LYQ128
Eff. date	11-24-2025
CD Diagram	CD0005
Poles	06
Leads	9#14
Proprietary	False
Created date	11-07-2025

Inverter Code	Inverter Ready
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3746M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	18.20 IN
Power Factor	67
Product Family	WP Below Decks Marine Duty
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	Standard
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.00
Shaft Diameter	1.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft 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

NP2117L									
CAT.NO.	ECTM3708T								
SPEC.	37Q128Z714								
HP	5								
VOLTS	230/460								
AMP	15.6/7.8								
RPM	1165								
FRAME	213TZ		HZ	60		PH	3		
SER.F.	1.00		CODE	K	DES	A	CL	F	
NEMA-NOM-EFF	89.5		PF	67					
RATING	40C AMB-CONT								
CC									
DE	6307		ODE	6206					
ENCL	TEAO		SN						

Parts List

Part number	Description	Quantity
SA443085	SA 37Q128Z714	1.000 ea
RA435581	RA 37Q128Z714	1.000 ea
HW3200A01	3/8-16X3/4 EYEBOLT WELDED F/S	1.000 ea
37CB3005A04	37 CB .75 NPT @ 6:00	1.000 ea
37GS1000SP	GASKET, CONDUIT BOX STD., .06 THICK LEXI	1.000 ea
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
37EP3101B88	FREP 37L&M-TENV MTR, FACE DRAINS	1.000 ea
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	3.000 ea
37PE3100A42	37 PUEP ASSEMBLY FOR SEAL	1.000 ea
HW4600H13	SEAL 1.375 X 2.125 X 0.313 SINGLE LIP DB	1.000 ea
HW5100A08	W3118-035 WVY WSHR (WB)	1.000 ea
XY3118A12	5/16-18 HEX NUT DIRECTIONAL SERRATION	4.000 ea
37CB4516	LIPPED LID FOR 37 FRAME NEC KOBX	1.000 ea
37GS1008	37 GS FOR CB LID - LEXIDE	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 ea
HW4600C51	31X39X7.5MM FACE SEAL FOR 1.375 DIA. SH	1.000 ea
HW4600G52	DOME SLINGER, 5.438 OD X 1.370/1.320 ID	1.000 ea
HW2501F21	KEY, 5/16 SQ X 2.375	1.000 ea
HA7000A02	KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA	1.000 ea
MJ5001A27	32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL	0.001 qt
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
MG1050Y01	CELEROL BALDOR GOLD *5 GALLON BUCKET*	0.028 ga
HA3104A18	THRUBOLT- 5/16-18 X14.000	4.000 ea
LC0005	CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING	1.000 ea
NP2117L	SS SUPER-E UL CC	1.000 ea
37PA1074	PALLET PACK GRP, PRINT BOX PK1026A06	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea

AC Induction Motor Performance Data

Record # 114242

Preliminary Data Sheet

Winding: 37WGZ714-R003			Type: 3746M		Enclosure: TEAO		
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		5	Full Load Torque		22.45 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		15.6/7.8	Breakdown Torque		86.4 LB-FT		
R.P.M.		1165	Pull-up Torque		57.4 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		62.6 LB-FT	
NEMA Design Code		A	KVA Code	K	Starting Current		59.4 A
Service Factor (S.F.)		1	No-load Current		4.66 A		
NEMA Nom. Eff.		89.5	Power Factor	67	Line-line Res. @ 25°C		1.59 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		61°C
					Locked-rotor Power Factor		22.7
					Rotor inertia		1.14 lb-ft²

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	29	47	59	67	71	74
Efficiency	83	88.7	89.8	89.5	88.5	87.1
Speed	1192	1184	1176	1166	1156	1144
Line amperes	4.92	5.65	6.58	7.8	9.21	10.83

ABB Motors and Mechanical Inc.

WINDING # 37WGZ714

Typical performance - not guaranteed values.

5 HP 3 PH 60 HZ 1165 RPM 460 V 3746M

TORQUES (LB-FT) : PO=86.4 PU=57.4 LR=62.6 LRA=59.4





