

ABB BALDOR RELIANCE III

Customer information packet

GDL1610T

10HP, 1740RPM, 1PH, 60HZ, 215TZ, 3748LC, ODTF

Class - None

Division - Not Applicable

Specifications

Enclosure	ODTF
Frame	215TZ
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Cap Start, Cap Run
Output @ Frequency	10.000 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
Agency Approvals	UR CSA
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	38.000 A @ 230.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	38.0 a
Insulation Class	F
Inverter Code	Not Inverter

Part Detail

Revision	Q
Type	AC
Mech. spec.	37M329
Base	
Status	PRD/A
Elec. spec.	37WGT875
Layout	37LYM329
Eff. date	02-08-2024
CD Diagram	CD1084
Poles	04
Leads	2#10 A PH,2#14 B PH
Proprietary	False
Created date	11-14-2014

KVA Code	F
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Cap Box
Motor Lead Quantity/Wire Size	2 @ 10 AWG, A PH
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3748LC
Mounting Arrangement	F1
Number of Poles	4
Overall Length	22.85 IN
Power Factor	98
Product Family	General Purpose
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	Included
Service Factor	1.00
Shaft Diameter	1.375 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1740 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP1256L											
CAT.NO.	GDL1610T										
SPEC.	37M329T875G1										
HP	10										
VOLTS	230										
AMP	38										
RPM	1740										
FRAME	215TZ		HZ	60				PH	1		
SER.F.	1.00		CODE	F	DES	L		CLASS	F		
NEMA-NOM-EFF	86.5		PF	98							
RATING	40C AMB-CONT										
CC											
DE	6307		ODE	6206							
ENCL	ODTF		SN								

Parts List

Part number	Description	Quantity
SA289948	SA 37M329T875G1	1.000 ea
RA276109	RA 37M329T875G1	1.000 ea
OC3050F09SP	CAPACITOR 50 MFD 370 VAC	2.000 ea
RE5029	MARS 91423 DOUBLE POLE 230-240V CONTACTO	1.000 ea
EC1216C06SP	ELEC CAP, 216-259 MFD, 250V, 2.06D X 4.	4.000 ea
HW3200A01	3/8-16X3/4 EYEBOLT WELDED F/S	1.000 ea
HA6003A47	CAPAC CLAMP	1.000 ea
37EP3203E00	MASTER,ODE,206 BRG,GREASER,DRIP COVER @1	1.000 ea
HW4500A19	1/4-28X1/4 SLOTTED PLUG F/S	1.000 ea
SP1008A01	BAFFLE, MODEL 36 & 37	1.000 ea
13XF0832A08	8-32 X.50 PAN HD,SLTD, TYPE F SCREW, ZIN	2.000 ea
HW5100A06	W2420-025 WVY WSHR (WB)	1.000 ea
37EP3400A08	EP PU OPEN 307 BRG W/GRSR, BAFFLE & SCRE	1.000 ea
37AD2000A01	BAFFLE PLATE, STAMPED PLATED	1.000 ea
60XW0632A06	6-32 X 3/8 TORX HEAD SCREW TAPTITE II	4.000 ea
HW4500A19	1/4-28X1/4 SLOTTED PLUG F/S	1.000 ea
HA1222	RODENT SCREEN - 37 C-FACE MOTORS	4.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	4.000 ea
HW1000A10	#10 FLAT WASHER (SAE)	4.000 ea
XY3118A12	5/16-18 HEX NUT DIRECTIONAL SERRATION	4.000 ea
10XN2520A30	HEX HD CAP SCREW-STD THD-.25 X 20 THD PE	4.000 ea
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	4.000 ea
HW4600B33	V-RING SLINGER 1.375 X 1.890 X .35 VITON	1.000 ea
51XB1214A20	12-14X1.25 HXWSSLD SERTYB	1.000 ea
07FH4004A33	SPL 307 DRIP COVER ODTF LESS GRILLE,	1.000 ea
HA3218A05	M/FE STANDOFF UNIC#SX1043.25-20 .38 HEX	3.000 ea
10XN2520A06	1/4 20X3/8 HX HD CAP	3.000 ea
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	3.000 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
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea

37CB5001A66	OPEN, A01 BOX W/LID, W/GASKETS - RELAY	1.000 ea
WD1000A15	3-520132-2 AMP FLAG (4M/RL NON-CANC/NON-	12.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
37FN3002A01SP	EXFN, PLASTIC, 9.00 OD, 1.155 ID	1.000 ea
MG1025G29	WILKOFAST, 789.229, DARK CHARCOAL GRAY	0.028 ga
SP5172A06	37 TYPE L TORQ STAT SWITCH LEAD ASSEMBLY	1.000 ea
HA3104A24	THRUBOLT- 5/16-18 X14.375	4.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
LC0017	CONN LABEL-1 PHASE-SINGLE VOLT-REV ROTNO	1.000 ea
NP1256L	ALUM UL CC INDUSTRIAL MOTOR A60	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
FE-0000001	ZRTG FE ASSEMBLY	1.000 ea

Accessories

Part number	Description	Multiplier
37-1404	C FACE KIT	A8

AC Induction Motor Performance Data

Record # 37141

Typical performance - not guaranteed values

Winding: 37WGT875-R001			Type: 3748LC		Enclosure: TEFC			
Nameplate Data			230 V, 60 Hz: Single Voltage Motor					
Rated Output (HP)		10	Full Load Torque		29.8 LB-FT			
Volts		230	Start Configuration		direct on line			
Full Load Amps		38	Breakdown Torque		84 LB-FT			
R.P.M.		1740	Pull-up Torque		56.4 LB-FT			
Hz		60	Phase		1	Locked-rotor Torque	76.8 LB-FT	
NEMA Design Code		L	KVA Code		F	Starting Current	234 A	
Service Factor (S.F.)		1	No-load Current		4.37 A			
NEMA Nom. Eff.		86.5	Power Factor		98	Line-line Res. @ 25°C		0.17 Ω A Ph 0.488 Ω B Ph
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		96°C		

Load Characteristics 230 V, 60 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	96	98	98	98	97	95
Efficiency	75.4	86.2	87.7	86.8	84.1	79.4
Speed	1788	1775	1759	1741	1720	1696
Line amperes	10.7	18.9	28	37.7	49.1	64.9

ABB Motors and Mechanical Inc.

WINDING # 37WGT875

Typical performance - not guaranteed values.

10 HP 1 PH 60 HZ 1740 RPM 230 V 3748LC

TORQUES (LB-FT): PO=84 PU=56.4 LR=76.8 LRA=234



