

ABB BALDOR RELIANCE III

Customer information packet

L1177T

15HP, 1760RPM, 1PH, 60HZ, 254T, 0956LC, TEFC

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	254T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Cap Start, Cap Run
Output @ Frequency	15.000 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 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	60.000 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	60.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	E

Part Detail

Revision	AN
Type	AC
Mech. spec.	09G373
Base	
Status	PRD/A
Elec. spec.	09WGZ143
Layout	09LYG373
Eff. date	02-08-2024
CD Diagram	CD1084
Poles	04
Leads	2#6 A PH 12" long,2#12 B PH Y
Proprietary	False
Created date	11-18-2005

Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Cap Box
Motor Lead Quantity/Wire Size	2 @ 6 AWG, A PH
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0956LC
Mounting Arrangement	F1
Number of Poles	4
Overall Length	23.36 IN
Power Factor	96
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS NON-COMPLIANT
Service Factor	1.00
Shaft Diameter	1.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1760 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.	L1177T								
SPEC.	09G373Z143G1								
HP	15								
VOLTS	230								
AMP	60								
RPM	1760								
FRAME	254T		HZ	60			PH	1	
SER.F.	1.00	CODE	E	DES	L	CLASS	F		
NEMA-NOM-EFF	86.5	PF	96						
RATING	40C AMB-CONT								
CC									
DE	6309		ODE	6307					
ENCL	TEFC	SN							

Parts List

Part number	Description	Quantity
SA135806	SA 09G373Z143G1	1.000 ea
RA125532	RA 09G373Z143G1	1.000 ea
OC3050F09SP	CAPACITOR 50 MFD 370 VAC	2.000 ea
RE0045A12	CONTACTOR, 40 AMP, 2 POLE, 208-240 VAC	1.000 ea
EC1216C06SP	ELEC CAP, 216-259 MFD, 250V, 2.06D X 4.	4.000 ea
09CB3801A01	SPL CAPACITOR BOX ADAPTER	1.000 ea
09GS1003	ADAPTER GASKET MODEL 309 MOTORS	1.000 ea
84XN2520J16	1/4-20 X 1 SOC HD CAP SCREW	4.000 ea
HA6003A47	CAPAC CLAMP	1.000 ea
HA7419	SPL BRACKET FOR MTG. CONTACT TO SINGLE P	1.000 ea
51XB1016A08	10-16X 1/2HXWSSLD SERTYB	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
WD1000B17	T&B CX35TN OR L35P TERMINAL LUG	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	7.000 ea
WD1000D90	T&B RC2577FM,90 DEG INSUL. FLAG TERMINAL	2.000 ea
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	4.000 ea
WD1000A03	41531 AMP FLG.TERM,4M/REEL(2.5MIL)	30.000 ea
WD1000D90	T&B RC2577FM,90 DEG INSUL. FLAG TERMINAL	1.000 ea
SP5165	MODEL 39 DOUBLE ARM STATIONARY SWITCH	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	2.000 ea
HW2501G25	KEY, 3/8 SQ X 2.875	1.000 ea
NS2605	SWITCH INSULATOR 09 FRAME	1.000 ea
09EP1100A120	ENDPLATE, MACH	1.000 ea
HA3400A33	STUD- 3/8-16 X 4.96 HEX	4.000 ea
HW5100A08	W3118-035 WVY WSHR (WB)	1.000 ea
10XN2520K36	1/4-20 X 2.25" HX HD SCRWGRADE 5, ZINC P	4.000 ea
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	4.000 ea
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	4.000 ea
37CB3804A43	CONDUIT BOX MACH.	1.000 ea
37GS3015	GASKET, CAPAC BOX	1.000 ea
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	2.000 ea

HA6003A45	CAPAC CLAMP - CLIP (WHITE ZINC PLATED)	2.000 ea
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	2.000 ea
09EP1101A11SP	PU ENDPLATE, MACH	1.000 ea
10XN3816K28	3/8-16 X 1.75 HEX HD CAP SCREW, GRADE 5	4.000 ea
HW4600B44	V-RING SLINGER 1.500 X 1.810 X .28 VITON	1.000 ea
XY3816A12	3/8-16 FINISHED NUT W/SERRATIONS	4.000 ea
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 ea
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 ea
09FH4000SP	309 FH - BLACK PRIMER	1.000 ea
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 ea
37CB4509	CAPAC BOX LID, STAMPED	1.000 ea
37GS3016	GASKET, CAPAC BOX LID	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	6.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
HW4500A05	1669B ALEM/UNIV860 GR FTG X	1.000 ea
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 ea
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 ea
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 ea
09FN2001A02	ALUM EXFN, 10.25 O.D., 1.380/1.378 BORE	1.000 ea
80XN3816L08	3/8-16 X 1/2 SET SCREW W/NYLON PATCH	1.000 ea
MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	0.050 ga
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.080 lb
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 ea
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 ea
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 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
PE-0000003	ZRTG PE ASSEMBLY	1.000 ea
40PA1005	PACKAGING GROUP, 09 STD	1.000 ea

Accessories

Part number	Description	Multiplier
09-1309	C FACE KIT	A8

AC Induction Motor Performance Data

Record # 21347

Typical performance - not guaranteed values

Winding: 09WGZ143-R001				Type: 0956LC		Enclosure: TEFC	
Nameplate Data				230 V, 60 Hz: Single Voltage Motor			
Rated Output (HP)		15		Full Load Torque		45.3 LB-FT	
Volts		230		Start Configuration		direct on line	
Full Load Amps		60		Breakdown Torque		114 LB-FT	
R.P.M.		1760		Pull-up Torque		55 LB-FT	
Hz		60		Phase		1	
NEMA Design Code		L		KVA Code		E	
Service Factor (S.F.)		1		No-load Current		7.93 A	
NEMA Nom. Eff.		86.5		Power Factor		96	
Rating - Duty		40C		AMB-CONT		Temp. Rise @ Rated Load	
						80°C	

Load Characteristics 230 V, 60 Hz, 15 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	89	95	96	96	95	94
Efficiency	80.5	87.6	88.3	86.9	83.8	79.3
Speed	1784	1768	1749	1727	1698	1664
Line amperes	17	29	42.7	57.9	75.8	97.2

ABB Motors and Mechanical Inc.

WINDING # 09WGZ143

Typical performance - not guaranteed values.

15 HP 1 PH 60 HZ 1760 RPM 230 V 0956LC

TORQUES (LB-FT): PO=114 PU=55 LR=76.7 LRA=304





