

ABB BALDOR RELIANCE III

Customer information packet

EHM3154T

1.5HP, 1770RPM, 3PH, 60HZ, 145T, 3524M, OPSB, F

Class - None

Division - Not Applicable

Specifications

Enclosure	OPSB
Frame	145T
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	1.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA 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	2.300 A @ 460.0 V 4.600 A @ 230.0 V 4.640 A @ 208.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	2.3 a

Part Detail

Revision	D
Type	AC
Mech. spec.	35VV807
Base	
Status	PRD/A
Elec. spec.	35WGL955
Layout	35LYVV807
Eff. date	05-05-2025
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	01-10-2022

Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	M
Lifting Lugs	Vertical Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3524M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	11.62 IN
Power Factor	72
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1770 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

NP2094E06B03									
CAT.NO.	EHM3154T								
SPEC.	35VV807L955G1								
HP	1.5								
VOLTS	230/460								
AMPS	4.6/2.3								
RPM	1770								
FRAME	145T		HZ	60		PH	3		
SER.F.	1.15	CODE	M	DES	B	CL	F		
NEMA-NOM-EFF	86.5		PF	72					
RATING	40C AMB-CONT								
CC	010A		USABLE AT 208V				N/A		
DE	6205		ODE	6203					
AUTO	N	MANUAL		N	NONE	Y			
ENCL	OPSB	SN							
BLANK	SFA 4.88/2.44								

Parts List

Part number	Description	Quantity
SA402469	SA 35VV807L955G1	1.000 ea
RA393746	RA 35VV807L955G1	1.000 ea
34FN3002B01	EXTERNAL FAN, PLASTIC, .637/.639 HUB W/	1.000 ea
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 ea
35CB4004A17	SHEET METAL KOBX 35 (STAMPED) 35CB4004 L	1.000 ea
51XT1032A04	10-32X1/4 HX WA SL SR TYT (F/S)	4.000 ea
11XT1032G04	10-32 X 1/4" GRD SCREW	1.000 ea
HW3001B01	BRASS CUP WASHER, FOR #10 SCREW	1.000 ea
35EP3209B00	MASTER ODE,203 BRG,GRSR,RLF	1.000 ea
HW4500A19	1/4-28X1/4 SLOTTED PLUG F/S	1.000 ea
HW4500A20	1/8NPT SL PIPE PLUG	1.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
35EP3210D00	MASTER DE,205 BRG,GRSR,STD SH,AEGIS HALF	1.000 ea
91XN0540J08	SCREW, 5-40 X 1/2", FHC, AS	2.000 ea
91XN0632J04	SCREW, 6-32 X 1/4", FHC, AS	2.000 ea
HW4500A19	1/4-28X1/4 SLOTTED PLUG F/S	1.000 ea
HW4500A20	1/8NPT SL PIPE PLUG	1.000 ea
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	4.000 ea
35CB4509	BOX LID MODEL 35 FOR 35CB4004-GALV & PHO	1.000 ea
51XB1016A08	10-16X 1/2HXWSSLD SERTYB	4.000 ea
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 ea
HA7000A01	KEY RETAINER 7/8" DIA SHAFT	1.000 ea
HA6362ZP	LIFTING LUG FOR 36 FRAME MOTORS.	2.000 ea
HW1000A10	#10 FLAT WASHER (SAE)	2.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	0.017 ga
HA3100A17	THRUBOLT 10-32 X 9.000	4.000 ea
35AD2005A01	BAFFLE PLATE,MOD 35-SLTD BAND MTRS TDR	2.000 ea
LC0005	CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING	1.000 ea
NP2094E06B03	NP LABEL W/BARCODE (PREM EFF HVAC MTR)	1.000 ea
35PA1066	PKG GRP, PRINT PK1008A07	1.000 ea

MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
FE-0000001	ZRTG FE ASSEMBLY	1.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
PE-0000001	ZRTG PE ASSEMBLY	1.000 ea

AC Induction Motor Performance Data

Record # 95388

Typical performance - not guaranteed values

Winding: 35WGL955-R002			Type: 3524M		Enclosure: OPEN	
Nameplate Data			460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		1.5	Full Load Torque		4.48 LB-FT	
Volts		230/460	Start Configuration		direct on line	
Full Load Amps		4.6/2.3	Breakdown Torque		18.8 LB-FT	
R.P.M.		1770	Pull-up Torque		9.6 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque	12.6 LB-FT	
NEMA Design Code	B	KVA Code	M	Starting Current	19.7 A	
Service Factor (S.F.)		1.15	No-load Current		1.51 A	
NEMA Nom. Eff.	86.5	Power Factor	72	Line-line Res. @ 25°C	11.8 Ω	
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		48°C	
S.F. Amps		5/2.5	Temp. Rise @ S.F. Load		57°C	
			Locked-rotor Power Factor		58.4	
			Rotor inertia		0.173 lb-ft²	

Load Characteristics 460 V, 60 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	31	49	63	72	78	81	76
Efficiency	75.1	83.5	86	86.5	85.8	84.8	86.1
Speed	1792	1785	1777	1769	1760	1750	1764
Line amperes	1.56	1.72	1.97	2.28	2.65	3.06	2.5

ABB Motors and Mechanical Inc.

WINDING # 35WGL955

Typical performance - not guaranteed values.

1.5 HP 3 PH 60 HZ 1770 RPM 460 V 3524M

TORQUES (LB-FT): PO=18.8 PU=9.6 LR=12.6 LRA=19.7





