

ABB BALDOR RELIANCE III

Customer information packet

EHM2547T

60HP, 1775RPM, 3PH, 60HZ, 364T, 4272M, OPSB, F1

Specifications

Enclosure	OPSB
Frame	364T
Frame Material	Steel
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	60.000 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	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	136.000 A @ 230.0 V 144.000 A @ 208.0 V 68.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.0 %
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	68.0 a
Insulation Class	F

Part Detail

Revision	Y
Type	AC
Mech. spec.	42H067
Base	
Status	PRD/A
Elec. spec.	42WGW434
Layout	42LYH067
Eff. date	07-10-2024
CD Diagram	CD0005
Poles	04
Leads	9#8
Proprietary	False
Created date	06-16-2006

Inverter Code	Inverter Ready
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 8 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	4272M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	29.94 IN
Power Factor	88
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	2.375 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	Mounting Provisions Only
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1775 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.	EHM2547T								
SPEC.	42H067W434G1								
HP	60								
VOLTS	230/460								
AMPS	136/68								
RPM	1775								
FRAME	364T		HZ	60		PH	3		
SER.F.	1.15	CODE	G	DES	B	CL	F		
NEMA-NOM-EFF	95		PF	88					
RATING	40C AMB-CONT								
CC	010A		USABLE AT 208V				N/A		
DE	6313		ODE	6311					
AUTO		MANUAL		NONE					
ENCL	OPSB	SN							
BLANK									

Parts List

Part number	Description	Quantity
SA144250	SA 42H067W434G1	1.000 ea
RA133452	RA 42H067W434G1	1.000 ea
HA6360	LIFTING LUG FOR 42 FRAME MOTORS.	2.000 ea
42CB4000A01	CONDUIT BOX 40, STAMPED	1.000 ea
51XF2520A08	SCREW,1/4-20X1/2 TAPTITE-II OR ROLOC 91	2.000 ea
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	2.000 ea
WD1000B16	T&B CX70TN OR L70P TERMINAL LUG	1.000 ea
418199008A	N/P GRD I/D	1.000 ea
42EP3200A01	FR ENDPLATE, MACH	1.000 ea
HW5100A13	W4627-047 WVY WSHER	1.000 ea
42EP1202A13	PUEP MODEL 42 313 BRG FOR 1/2 SH GND MTG	1.000 ea
84XN0632J08	#6-32 X .50 SOCK HD, BK OX	2.000 ea
10XN3816K44	3/8-16 X 2.75 HEX HD CAP SCREW, GRADE 5	4.000 ea
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 ea
XY5013A12	NUT,1/2-13,HEX,STEEL,ZINCPLATED	8.000 ea
42CB4500A01	CONDUIT BOX LID 42, STAMPED, W/ PRIMER	1.000 ea
51XF2520A08	SCREW, HEX SER SLT HD, ZN 1/4-20 X .50 L	2.000 ea
HW2501J36	KEY, 5/8 SQ X 4.250	1.000 ea
84XN0540J08	5-40 X 1/2" SHCS, BLACK OXIDE	2.000 ea
HW4500A20	1/8NPT SL PIPE PLUG	2.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.030 lb
HW4500A20	1/8NPT SL PIPE PLUG	2.000 ea
MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	0.080 ga
HA3151A09	THRUBOLT STUD 1/2-13 X 22.000	4.000 ea
42AD2001A01	BAFFLE PLATE 42 OPEN, SLOTTED BAND MTRS	1.000 ea
42AD2001A01	BAFFLE PLATE 42 OPEN, SLOTTED BAND MTRS	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 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
42PA1000	PACKAGING GROUP PRINT PK1024A07	1.000 ea

AC Induction Motor Performance Data

Record # 35576

Typical performance - not guaranteed values

Winding: 42WGW434-R003			Type: 4272M		Enclosure: OPSB		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		60	Full Load Torque		177 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		136/68	Breakdown Torque		614 LB-FT		
R.P.M.		1775	Pull-up Torque		240 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		309 LB-FT	
NEMA Design Code		B	KVA Code	G	Starting Current		464 A
Service Factor (S.F.)		1.15		No-load Current		22.2 A	
NEMA Nom. Eff.		95	Power Factor	88	Line-line Res. @ 25°C		0.0887 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		31°C	
S.F. Amps				Temp. Rise @ S.F. Load		41°C	
				Locked-rotor Power Factor		27	
				Rotor inertia		9.59 LB-FT2	

Load Characteristics 460 V, 60 Hz, 60 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	56	77	85	88	89	89	88
Efficiency	92.6	94.9	95.3	95	94.6	93.7	94.8
Speed	1793	1787	1781	1775	1769	1762	1771
Line amperes	27.3	38.7	52.1	67.5	83.6	101.3	77.1

ABB Motors and Mechanical Inc.

WINDING # 42WGW434

Typical performance - not guaranteed values.

60 HP 3 PH 60 HZ 1775 RPM 460 V 4272M

TORQUES (LB-FT): PO=614 PU=240 LR=309 LRA=464





