

ABB BALDOR RELIANCE III

Customer information packet

EM2547TS-12

60HP, 1775RPM, 3PH, 60HZ, 364TS, 4278M, OPSB, F

Specifications

Enclosure	OPSB
Frame	364TS
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	CURUSEEV NEMA PREMIUM NEMA PREMIUM (OLD LOGO)
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	144.000 A @ 208.0 V 68.000 A @ 460.0 V 136.000 A @ 230.0 V
Design Code	A
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

Part Detail

Revision	V
Type	AC
Mech. spec.	42E212
Base	
Status	PRD/A
Elec. spec.	42WGW658
Layout	42LYE212
Eff. date	11-29-2023
CD Diagram	CD0104
Poles	04
Leads	12#8
Proprietary	False
Created date	08-03-2010

Insulation Class	F
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	12 @ 8 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	4278M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	28.56 IN
Power Factor	87
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	1.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1775 rpm
Speed Code	Single Speed
Starting Method	Wye Start - Delta Run
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP2138LUA													
CAT.NO.	EM2547TS-12				P/N					ENCLOSURE		OPSB	
SPEC.	42E212W658			CC	010A	FRAME		364TS		S/N			
HP	60				CLASS		F	HZ	60				
RPM	1775				PH	3	DES		A				
VOLT	230/460				KVA-CODE			G	ODE BRG		6311	DE BRG	6313
AMP	136/68												
RATING	40C AMB-CONT				GREASE			POLYREX EM					
NEMA-NOM-EFF	95	PF	87	SER.F.	1.15								
	50Hz 60Hp 190/380V 162/81A						SF 1.0						
HTR-VOLTS			HTR-AMPS										

AC Induction Motor Performance Data

Record # 25763

Typical performance - not guaranteed values

Winding: 42WGW658-R001			Type: 4278M		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		624 LB-FT		
R.P.M.		1775	Pull-up Torque		245 LB-FT		
Hz	60 Phase	3	Locked-rotor Torque		314 LB-FT		
NEMA Design Code		A	KVA Code		G	Starting Current	470 A
Service Factor (S.F.)		1.15	No-load Current		22.2 A		
NEMA Nom. Eff.		95	Power Factor		87	Line-line Res. @ 25°C	0.0815 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		30°C
S.F. Amps					Temp. Rise @ S.F. Load		36°C
					Locked-rotor Power Factor		26
					Rotor inertia		10.4 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	87	88	88	88
Efficiency	92.7	94.9	95.5	95	94.5	93.9	94.7
Speed	1793	1787	1781	1775	1769	1762	1771
Line amperes	27.3	38.7	52.1	67.6	83.6	101	77.2

ABB Motors and Mechanical Inc.

WINDING # 42WGW658

Typical performance - not guaranteed values.

60 HP 3 PH 60 HZ 1775 RPM 460 V 4278M

TORQUES (LB-FT): PO=624 PU=245 LR=314 LRA=470





