

ABB BALDOR RELIANCE III

Customer information packet

EM2551T-12

75HP, 1775RPM, 3PH, 60HZ, 365T, 4462M, OPSB, F1

Specifications

Enclosure	OPSB
Frame	365T
Frame Material	Steel
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	75.000 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	NEMA PREMIUM NEMA PREMIUM (OLD LOGO) CURUSEEV
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	174.000 A @ 230.0 V 87.000 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	87.0 a
Insulation Class	F

Part Detail

Revision	V
Type	AC
Mech. spec.	44E196
Base	
Status	PRD/A
Elec. spec.	44WGW162
Layout	44LYE196
Eff. date	10-31-2024
CD Diagram	CD0104
Poles	04
Leads	12#8
Proprietary	False
Created date	08-03-2010

Inverter Code	Inverter Ready
KVA Code	F
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	4462M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	33.72 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	2.375 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.	EM2551T-12			P/N					ENCLOSURE		OPSB	
SPEC.	44E196W162G2		CC	010A	FRAME		365T		S/N			
HP	75			CLASS		F	HZ	60				
RPM	1775			PH	3	DES		B				
VOLT	230/460			KVA-CODE			F	ODE BRG		6312	DE BRG	6313
AMP	174/87											
RATING	40C AMB-CONT			GREASE			POLYREX EM					
NEMA-NOM-EFF	95	PF	87	SER.F.	1.15							
	50Hz 75Hp 190/380V 208/104A							SF 1.0				
HTR-VOLTS	HTR-AMPS											

AC Induction Motor Performance Data

Record # 31071

Typical performance - not guaranteed values

Winding: 44WGW162-R001			Type: 4462M		Enclosure: OPEN	
Nameplate Data			460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		75	Full Load Torque		222 LB-FT	
Volts		230/460	Start Configuration		direct on line	
Full Load Amps		174/87	Breakdown Torque		617 LB-FT	
R.P.M.		1775	Pull-up Torque		239 LB-FT	
Hz	60 Phase	3	Locked-rotor Torque		332 LB-FT	
NEMA Design Code		B KVA Code	Starting Current		512 A	
Service Factor (S.F.)		1.15	No-load Current		26.4 A	
NEMA Nom. Eff.		95 Power Factor	Line-line Res. @ 25°C		0.0781 Ω	
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		30°C	
S.F. Amps			Temp. Rise @ S.F. Load		37°C	
			Locked-rotor Power Factor		26.3	
			Rotor inertia		11.7 LB-FT2	

Load Characteristics 460 V, 60 Hz, 75 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	56	77	83	87	87	87	87
Efficiency	93.6	95.5	96	95.3	94.9	93.9	95.1
Speed	1794	1788	1782	1776	1769	1761	1772
Line amperes	34.1	48.2	66.2	87	106	128	97.8

ABB Motors and Mechanical Inc.

WINDING # 44WGW162

Typical performance - not guaranteed values.

75 HP 3 PH 60 HZ 1775 RPM 460 V 4462M

TORQUES (LB-FT): PO=617 PU=239 LR=332 LRA=512





