

ABB BALDOR RELIANCE III

Customer information packet

ECR9404T

40HP, 1775RPM, 3PH, 60HZ, 324T, 1264M, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	324T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	40.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	CCSA US CSA EEV NEMA PREMIUM NEMA_PREMIUM 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
Constant Torque Speed Range	6
Current @ Voltage	98.000 A @ 230.0 V 49.000 A @ 460.0 V 106.000 A @ 208.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.1 %
Electrically Isolated Bearing	Not Electrically Isolated

Part Detail

Revision	Q
Type	AC
Mech. spec.	12H518
Base	
Status	PRD/A
Elec. spec.	12WGY872
Layout	12LYH518
Eff. date	10-16-2025
CD Diagram	CD0005
Poles	04
Leads	9#8
Proprietary	False
Created date	01-07-2015

Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	49.0 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 8 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1264M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	30.66 IN
Power Factor	81
Product Family	Super-E Chemical Processing
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.25
Shaft Diameter	2.125 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft 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

NP3293																
CAT.NO.	ECR9404T			P/N						ENCLOSURE		TEFC				
SPEC.	12H518Y872G1		CC	010A	FRAME		324T		S/N							
HP	40		CLASS		F	HZ	60	DES	A							
RPM	1775		RPM MAX		2700		PH	3	KVA-CODE		G					
VOLT	230/460					I.P.		55								
AMP	98/49			SER.F.		1.25		PF	81	ODE BRG		6312		DE BRG	6313	
RATING	40C AMB-CONT			NEMA-NOM-EFF				94.1		GREASE		POLYREX EM				
HTR-VOLTS	HTR-AMPS		HTR-WATTS					INV.TYPE								
	SFA 122/61															
				C HP FR		60		C HP TO		90						
				CT HZ FROM			6		CT HZ TO			60				
				MOTOR WEIGHT				645		VT HZ FROM			6		VT HZ TO	60

AC Induction Motor Performance Data

Record # 48603

Typical performance - not guaranteed values

Winding: 12WGY872-R001			Type: 1264M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		40	Full Load Torque		118 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		98/49	Breakdown Torque		313 LB-FT		
R.P.M.		1775	Pull-up Torque		202 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		289 LB-FT	
NEMA Design Code		A	KVA Code	G	Starting Current		304 A
Service Factor (S.F.)		1.25	No-load Current		19.5 A		
NEMA Nom. Eff.		94.1	Power Factor	81	Line-line Res. @ 25°C		0.14 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		55°C
S.F. Amps		122/61	Temp. Rise @ S.F. Load		76°C		
			Locked-rotor Power Factor		30		
			Rotor inertia		8.49 LB-FT2		

Load Characteristics 460 V, 60 Hz, 40 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	46	67	77	81	82	82	82
Efficiency	89.8	93.7	94.3	94.2	93.4	93	93.6
Speed	1794	1790	1784	1779	1771	1763	1772
Line amperes	22.6	29.7	38.7	49.2	60.7	73.8	60.7

ABB Motors and Mechanical Inc.

WINDING # 12WGY872

Typical performance - not guaranteed values.

40 HP 3 PH 60 HZ 1775 RPM 460 V 1264M

TORQUES (LB-FT): PO=313 PU=202 LR=289 LRA=304





