

ABB BALDOR RELIANCE III

Customer information packet

CECR9504T

50HP, 1775RPM, 3PH, 60HZ, 326T, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	326TC
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	50.000 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 CCSA US NEMA_PREMIUM NEMA PREMIUM CSA EEV
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	122.000 A @ 230.0 V 61.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Enclosure Modification	Severe Duty Features

Part Detail

Revision	G
Type	AC
Mech. spec.	12H992
Base	
Status	PRD/A
Elec. spec.	12WGY875
Layout	12LYH992
Eff. date	11-18-2025
CD Diagram	CD0005
Poles	04
Leads	9#8
Proprietary	False
Created date	02-21-2019

Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	61.0 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	IP55
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	9 @ 8 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1272M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	30.20 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 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.	CECR9504T			P/N						ENCLOSURE		TEFC				
SPEC.	12H992Y875G2		CC	010A	FRAME		326TC		S/N							
HP	50		CLASS		F	HZ	60	DES	A							
RPM	1775		RPM MAX		2700		PH	3	KVA-CODE		G					
VOLT	230/460					I.P.		55								
AMP	122/61			SER.F.		1.25		PF	81	ODE BRG		6312		DE BRG	6313	
RATING	40C AMB-CONT			NEMA-NOM-EFF				94.5		GREASE		POLYREX EM				
HTR-VOLTS	HTR-AMPS		HTR-WATTS					INV.TYPE								
	SFA 150/75															
				C HP FR		60		C HP TO		90						
				CT HZ FROM			6		CT HZ TO			60				
				MOTOR WEIGHT				700		VT HZ FROM			6		VT HZ TO	60

AC Induction Motor Performance Data

Record # 48738

Typical performance - not guaranteed values

Winding: 12WGY875-R001			Type: 1272M		Enclosure: TEFC	
Nameplate Data				460 V, 60 Hz: High Voltage Connection		
Rated Output (HP)		50		Full Load Torque		147 LB-FT
Volts		230/460		Start Configuration		direct on line
Full Load Amps		122/61		Breakdown Torque		406 LB-FT
R.P.M.		1775		Pull-up Torque		292 LB-FT
Hz	60	Phase	3	Locked-rotor Torque		403 LB-FT
NEMA Design Code		A	KVA Code	G	Starting Current	
Service Factor (S.F.)		1.25		No-load Current		24.6 A
NEMA Nom. Eff.		94.5	Power Factor	81	Line-line Res. @ 25°C	
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		61°C
S.F. Amps		150/75		Temp. Rise @ S.F. Load		83°C
				Locked-rotor Power Factor		29.4
				Rotor inertia		9.55 LB-FT2

Load Characteristics 460 V, 60 Hz, 50 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	45	68	77	81	83	83	83
Efficiency	92.9	95.1	95.6	94.9	94.9	93.9	94.9
Speed	1795	1790	1785	1780	1774	1767	1774
Line amperes	28	36.9	47.8	60.5	75.1	90.5	75.1

ABB Motors and Mechanical Inc.

WINDING # 12WGY875

Typical performance - not guaranteed values.

50 HP 3 PH 60 HZ 1775 RPM 460 V 1272M

TORQUES (LB-FT): PO=406 PU=292 LR=403 LRA=394





