

ABB BALDOR RELIANCE III

Customer information packet

ECR9306T

30HP, 1180RPM, 3PH, 60HZ, 326T, 1272M, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	326T
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	30.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 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	90.000 A @ 208.0 V 84.000 A @ 230.0 V 42.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.0 %
Electrically Isolated Bearing	Not Electrically Isolated

Part Detail

Revision	S
Type	AC
Mech. spec.	12H518
Base	
Status	PRD/A
Elec. spec.	12WGY876
Layout	12LYH518
Eff. date	10-16-2025
CD Diagram	CD0005
Poles	06
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	42.0 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	1800 rpm
Motor Lead Exit	Ko Box
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	6
Overall Length	30.66 IN
Power Factor	72
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	1180 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.	ECR9306T			P/N						ENCLOSURE		TEFC				
SPEC.	12H518Y876G1		CC	010A	FRAME		326T		S/N							
HP	30		CLASS		F	HZ	60	DES	A							
RPM	1180	RPM MAX		1800		PH		3	KVA-CODE		K					
VOLT	230/460					I.P.		55								
AMP	84/42			SER.F.		1.25		PF	72	ODE BRG		6312	DE BRG		6313	
RATING	40C AMB-CONT			NEMA-NOM-EFF				93	GREASE		POLYREX EM					
HTR-VOLTS	HTR-AMPS			HTR-WATTS					INV.TYPE							
	SFA 102/51															
				C HP FR		60		C HP TO		90						
				CT HZ FROM				6		CT HZ TO		60				
				MOTOR WEIGHT				560		VT HZ FROM		6		VT HZ TO		60

AC Induction Motor Performance Data

Record # 50077

Typical performance - not guaranteed values

Winding: 12WGY876-R001			Type: 1272M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		30	Full Load Torque		133 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		84/42	Breakdown Torque		484 LB-FT		
R.P.M.		1180	Pull-up Torque		259 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		307 LB-FT	
NEMA Design Code		A	KVA Code	K	Starting Current		327 A
Service Factor (S.F.)		1.25	No-load Current		23.8 A		
NEMA Nom. Eff.		93	Power Factor	72	Line-line Res. @ 25°C		0.22 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		53°C
S.F. Amps		102/51	Temp. Rise @ S.F. Load		71°C		
			Locked-rotor Power Factor		27.8		
			Rotor inertia		13.8 LB-FT2		

Load Characteristics 460 V, 60 Hz, 30 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	32	52	65	72	76	79	76
Efficiency	85.7	91.3	92.9	93.4	92.9	92.6	92.9
Speed	1197	1194	1191	1188	1184	1180	1184
Line amperes	25.3	29.7	35.3	42	49.6	57.7	49.6

ABB Motors and Mechanical Inc.

WINDING # 12WGY876

Typical performance - not guaranteed values.

30 HP 3 PH 60 HZ 1180 RPM 460 V 1272M

TORQUES (LB-FT) : PO=484 PU=259 LR=307 LRA=327





