

ABB BALDOR RELIANCE III

Customer information packet

ECR9076T

7.5HP, 1180RPM, 3PH, 60HZ, 254T, 0954M, TEFC, F

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	254T
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	7.500 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	23.400 A @ 208.0 V 21.800 A @ 230.0 V 10.900 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.0 %
Electrically Isolated Bearing	Not Electrically Isolated

Part Detail

Revision	Q
Type	AC
Mech. spec.	09L575
Base	
Status	PRD/A
Elec. spec.	09WGT572
Layout	09LYL575
Eff. date	06-24-2024
CD Diagram	CD0005
Poles	06
Leads	9#12 Y
Proprietary	False
Created date	05-17-2018

Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	10.9 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	M
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	1800 rpm
Motor Lead Quantity/Wire Size	9 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0954M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	24.77 IN
Power Factor	71
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	1.625 IN
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.	ECR9076T			P/N					ENCLOSURE		TEFC						
SPEC.	09L575T572G1		CC	010A	FRAME		254T		S/N								
HP	7.5		CLASS		F	HZ		60	DES		A						
RPM	1180	RPM MAX		1800		PH		3	KVA-CODE		M						
VOLT	230/460					I.P.		55									
AMP	21.8/10.9			SER.F.		1.25		PF		71	ODE BRG		6309	DE BRG		6311	
RATING	40C AMB-CONT			NEMA-NOM-EFF				91		GREASE		POLYREX EM					
HTR-VOLTS	HTR-AMPS		HTR-WATTS					INV.TYPE									
	SFA 26.4/13.2																
				C HP FR		60		C HP TO		90							
				CT HZ FROM			6		CT HZ TO			60					
				MOTOR WEIGHT				302		VT HZ FROM			6		VT HZ TO		60

AC Induction Motor Performance Data

Record # 73415

Typical performance - not guaranteed values

Winding: 09WGT572-R001			Type: 0954M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		7.5	Full Load Torque		33.37 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		21.8/10.9	Breakdown Torque		135 LB-FT		
R.P.M.		1180	Pull-up Torque		64.1 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		107 LB-FT	
NEMA Design Code		A	KVA Code		K		
Service Factor (S.F.)		1.25	No-load Current		6.27 A		
NEMA Nom. Eff.		91	Power Factor		74		
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		36°C
S.F. Amps		25.6/12.8	Temp. Rise @ S.F. Load		46°C		
			Locked-rotor Power Factor		28.6		

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	32	51	64	71	76	78	76
Efficiency	82.2	88.9	90.7	91	90.8	90.2	90.8
Speed	1196.4	1193.2	1189.6	1185.7	1181.5	1177.6	1182
Line amperes	6.7	7.73	9.18	10.9	12.8	14.9	12.8

ABB Motors and Mechanical Inc.

WINDING # 09WGT572

Typical performance - not guaranteed values.

7.5 HP 3 PH 60 HZ 1180 RPM 460 V 0954M

TORQUES (LB-FT): PO=135 PU=64.1 LR=107 LRA=94.2





