

ABB BALDOR RELIANCE III

Customer information packet

ECTM2276T

7.5 AIR OVERHP, 1180RPM, 3PH, 60HZ, 254T, 095

Class - None

Division - Not Applicable

Specifications

Enclosure	TEAO
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	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	UR CSA 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
Current @ Voltage	22.000 A @ 230.0 V 11.000 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
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	W
Type	AC
Mech. spec.	09L877
Base	
Status	PRD/A
Elec. spec.	09WGT118
Layout	09LYL877
Eff. date	11-14-2023
CD Diagram	CD0005
Poles	06
Leads	9#12
Proprietary	False
Created date	08-14-2015

High Voltage Full Load Amps	11.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	J
Lifting Lugs	Vertical Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
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	23.00 IN
Power Factor	70
Product Family	Super-E Chemical Processing
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.625 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

NP2178									
CAT.NO.	ECTM2276T								
SPEC.	09L877T118G1								
HP	7.5 AIR OVER								
VOLTS	230/460								
AMP	22/11								
RPM	1180								
FRAME	254T	HZ		60	PH		3		
SER.F.	1.15	CODE	J	DES	A	CL	F		
NEMA-NOM-EFF	91	PF	70						
RATING	40C AMB-CONT								
CC									
DE	6309	ODE		6208					
ENCL	TEAO	SN							
	1800 FPM @ 250CFM								

AC Induction Motor Performance Data

Record # 47559

Typical performance - not guaranteed values

Winding: 09WGT118-R003			Type: 0954M		Enclosure: TEAO	
Nameplate Data			460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		7.5 AIR OVER	Full Load Torque		33.2 LB-FT	
Volts		230/460	Start Configuration		direct on line	
Full Load Amps		22/11	Breakdown Torque		113 LB-FT	
R.P.M.		1180	Pull-up Torque		41.3 LB-FT	
Hz	60 Phase	3	Locked-rotor Torque		57.4 LB-FT	
NEMA Design Code		A KVA Code	Starting Current		74.8 A	
Service Factor (S.F.)		1.15	No-load Current		6.06 A	
NEMA Nom. Eff.		91 Power Factor	Line-line Res. @ 25°C		0.87037 Ω	
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		36°C	
S.F. Amps			Temp. Rise @ S.F. Load		42°C	

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	32	52	63	70	74	75	72
Efficiency	83.2	89.4	90.9	91.1	90.7	89.9	90.9
Speed	1196.5	1192.4	1188.3	1183.7	1178.7	1173.2	1181
Line amperes	6.49	7.59	9.09	11	13.1	15.5	12.3

ABB Motors and Mechanical Inc.

WINDING # 09WGT118

Typical performance - not guaranteed values.

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

TORQUES (LB-FT): PO=113 PU=41.3 LR=57.4 LRA=74.8





