

ABB BALDOR RELIANCE III

Customer information packet

EM2276T-BG

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	CSA CSA EEV 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
Current @ Voltage	22.000 A @ 230.0 V 23.000 A @ 208.0 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

Part Detail

Revision	AB
Type	AC
Mech. spec.	09K909
Base	
Status	PRD/A
Elec. spec.	09WGT118
Layout	09LYK909
Eff. date	01-16-2026
CD Diagram	CD0005
Poles	06
Leads	9#12
Proprietary	False
Created date	10-03-2014

Heater Indicator	No Heater
High Voltage Full Load Amps	11.0 a
Insulation Class	H
Inverter Code	Inverter Ready
KVA Code	J
Lifting Lugs	Standard 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	23.30 IN
Power Factor	70
Product Family	General Purpose
Pulley End Bearing Type	Ball
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	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

NP3441L											
CAT.NO.		EM2276T-BG									
SPEC.		09K909T118G1									
HP		7.5									
VOLTS		230/460									
AMP		22/11									
RPM		1180									
FRAME		254T		HZ		60		PH		3	
SER.F.		1.15	CODE		J	DES		A	CL		H
NEMA-NOM-EFF		91	PF		70						
RATING		40C AMB-CONT									
CC		010A									
DE		6309	ODE		6208						
ENCL		TEFC	SN								
VPWM INVERTER READY											
CT6-60H(10:1)VT3-60H(20:1											
SFA 24.6/12.3											

AC Induction Motor Performance Data

Record # 47558

Typical performance - not guaranteed values

Winding: 09WGT118-R002			Type: 0954M		Enclosure: TEFC	
Nameplate Data			460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		7.5	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		J	
Service Factor (S.F.)		1.15	Starting Current		74.8 A	
NEMA Nom. Eff.		91	Power Factor		70	
Rating - Duty		40C AMB-CONT	Line-line Res. @ 25°C		0.87037 Ω	
S.F. Amps			Temp. Rise @ Rated Load		36°C	
			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





