

ABB BALDOR RELIANCE III

Customer information packet

CEWDM22976T

7.5HP, 1180RPM, 3PH, 60HZ, 254TC, 3954M, TEFC

Class -

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	254TC
Frame Material	Steel
Frequency	60.00 Hz
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 EEV UR CSA
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	11.000 A @ 460.0 V 22.000 A @ 230.0 V 23.000 A @ 208.0 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	AH
Type	AC
Mech. spec.	39R098
Base	
Status	PRD/A
Elec. spec.	39WGX718
Layout	39LYR098
Eff. date	01-22-2025
CD Diagram	CD0005
Poles	06
Leads	9#12
Proprietary	False
Created date	06-16-2010

High Voltage Full Load Amps	11.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	K
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	3954M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	23.57 IN
Power Factor	69
Product Family	Wash Down
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
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	No 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

NP1669L									
CAT.NO.	CEWDM22976T								
SPEC.	39R098X718G1								
HP	7.5								
VOLTS	230/460								
AMP	22/11								
RPM	1180								
FRAME	254TC		HZ	60			PH	3	
SER.F.	1.15	CODE	K	DES	A	CLASS	F		
NEMA-NOM-EFF	91	PF	69						
RATING	40C AMB-CONT								
CC	010A								
DE	6309		ODE	6208					
ENCL	TEFC	SN							
BLANK	20:1 CT 20:1 VT								

AC Induction Motor Performance Data

Record # 31521

Typical performance - not guaranteed values

Winding: 39WGX718-R001			Type: 3954M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		7.5	Full Load Torque		33.2 LB-FT		
Volts		208-230/460	Start Configuration		direct on line		
Full Load Amps		23-22/11	Breakdown Torque		107 LB-FT		
R.P.M.		1180	Pull-up Torque		42.9 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		63.1 LB-FT	
NEMA Design Code		A	KVA Code	Starting Current		75.8 A	
Service Factor (S.F.)		1.15	No-load Current		6.02 A		
NEMA Nom. Eff.		91	Power Factor	Line-line Res. @ 25°C		0.891 Ω	
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		33°C
S.F. Amps					Temp. Rise @ S.F. Load		39°C
					Locked-rotor Power Factor		26
					Rotor inertia		4.34 LB-FT2

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	31	51	63	70	73	74	72
Efficiency	83.8	90.3	91.6	91.6	91.3	90.5	91.4
Speed	1196	1193	1189	1184	1180	1175	1182
Line amperes	6.74	7.71	9.19	11	13.2	15.7	12.3

ABB Motors and Mechanical Inc.

WINDING # 39WGX718

Typical performance - not guaranteed values.

7.5 HP 3 PH 60 HZ 1180 RPM 460 V 3954M

TORQUES (LB-FT): PO=107 PU=42.9 LR=63.1 LRA=75.8





