

ABB BALDOR RELIANCE III

Customer information packet

CESSWDM23994T

15HP, 3520RPM, 3PH, 60HZ, 254TC, 3952M, TEFC, F

Class -

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	254TC
Frame Material	Stainless Steel
Frequency	60.00 Hz
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	15.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	CSA 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	16.500 A @ 460.0 V 33.000 A @ 230.0 V 36.000 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
High Voltage Full Load Amps	16.5 a

Part Detail

Revision	AU
Type	AC
Mech. spec.	39E119
Base	
Status	PRD/A
Elec. spec.	39WGX633
Layout	39LYE119
Eff. date	11-18-2025
CD Diagram	CD0005
Poles	02
Leads	9#12
Proprietary	False
Created date	03-18-2008

Insulation Class	F
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	3952M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	24.67 IN
Power Factor	92
Product Family	Wash Down All Stainless Steel
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	3520 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

NP1953D01											
CAT.NO.	CESSWDM23994T										
SPEC.	39E119X633G1										
HP	15										
VOLTS	230/460										
AMP	33/16.5										
RPM	3520										
FRAME	254TC			HZ	60				PH	3	
SER.F.	1.15		CODE	J	DES	A		CLASS	F		
NEMA-NOM-EFF	91			PF	92						
RATING	40C AMB-CONT										
CC	010A				USABLE AT 208V				N/A		
DE	6309			ODE	6208						
ENCL	TEFC		SN								
	2:1 CT/10:1 VT										

AC Induction Motor Performance Data

Record # 35516

Typical performance - not guaranteed values

Winding: 39WGX633-R002			Type: 3952M		Enclosure: TEFC	
Nameplate Data			460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		15	Full Load Torque		22.1 LB-FT	
Volts		230/460	Start Configuration		direct on line	
Full Load Amps		33/16.5	Breakdown Torque		100 LB-FT	
R.P.M.		3520	Pull-up Torque		36.4 LB-FT	
Hz	60 Phase	3	Locked-rotor Torque		47.4 LB-FT	
NEMA Design Code		A	KVA Code		J	
Service Factor (S.F.)		1.15	Starting Current		145 A	
NEMA Nom. Eff.		91	Power Factor		92	
Rating - Duty		40C AMB-CONT	Line-line Res. @ 25°C		0.467 Ω	
S.F. Amps			Temp. Rise @ Rated Load		73°C	
			Temp. Rise @ S.F. Load		87°C	
			Locked-rotor Power Factor		27.2	
			Rotor inertia		1.33 LB-FT2	

Load Characteristics 460 V, 60 Hz, 15 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	66	84	90	92	93	93	93
Efficiency	83.9	89.6	91.1	91.3	90.8	90.1	91
Speed	3579	3563	3546	3528	3507	3486	3515
Line amperes	6.39	9.25	12.8	16.5	20.6	24.9	19

ABB Motors and Mechanical Inc.

WINDING # 39WGX633

Typical performance - not guaranteed values.

15 HP 3 PH 60 HZ 3520 RPM 460 V 3952M

TORQUES (LB-FT): PO=100 PU=36.4 LR=47.4 LRA=145





