

ABB BALDOR RELIANCE III

Customer information packet

CESSWDM23933T

15HP, 1765RPM, 3PH, 60HZ, 254TC, 3956M, TEFC, F

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	254TC
Frame Material	Stainless Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	15.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA 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
Current @ Voltage	35.000 A @ 230.0 V 38.000 A @ 208.0 V 17.500 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	92.4 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK

Part Detail

Revision	AQ
Type	AC
Mech. spec.	39E119
Base	
Status	PRD/A
Elec. spec.	39WGX682
Layout	39LYE119
Eff. date	09-30-2026
CD Diagram	CD0005
Poles	04
Leads	9#12
Proprietary	False
Created date	05-21-2009

Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	17.5 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G
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	3956M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	24.67 IN
Power Factor	86
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	No Slinger
Speed	1765 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

NP1953D01

CAT.NO.	CESSWDM23933T										
SPEC.	39E119X682H2										
HP	15										
VOLTS	230/460										
AMP	35/17.5										
RPM	1765										
FRAME	254TC				HZ		60		PH		3
SER.F.	1.15		CODE		G	DES		A	CLASS		F
NEMA-NOM-EFF	92.4			PF		86					
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 # 48151

Typical performance - not guaranteed values

Winding: 39WGX682-R001			Type: 3956M		Enclosure: TEFC	
Nameplate Data			460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		15	Full Load Torque		44.6 LB-FT	
Volts		230/460	Start Configuration		direct on line	
Full Load Amps		35/17.5	Breakdown Torque		163 LB-FT	
R.P.M.		1765	Pull-up Torque		52.3 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		77 LB-FT
NEMA Design Code		A	KVA Code	G	Starting Current	
Service Factor (S.F.)		1.15	No-load Current		6.54 A	
NEMA Nom. Eff.		92.4	Power Factor	86	Line-line Res. @ 25°C	
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load	
S.F. Amps					Temp. Rise @ S.F. Load	
					Locked-rotor Power Factor	
					Rotor inertia	

Load Characteristics 460 V, 60 Hz, 15 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	51	73	82	87	88	89	88
Efficiency	88.6	92.6	92.8	92.6	91.7	90.6	92.1
Speed	1792	1784	1776	1767	1757	1745	1761
Line amperes	7.8	10.4	13.7	17.5	21.7	27.1	20

ABB Motors and Mechanical Inc.

WINDING # 39WGX682

Typical performance - not guaranteed values.

15 HP 3 PH 60 HZ 1765 RPM 460 V 3956M

TORQUES (LB-FT): PO=163 PU=52.3 LR=77 LRA=118





