

ABB BALDOR RELIANCE III

Customer information packet

EWDM23933T

15HP, 1765RPM, 3PH, 60HZ, 254T, 3942M, TEFC, F1

Class -

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	254T
Frame Material	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	1800 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	18.000 A @ 460.0 V 36.000 A @ 208.0 V 36.000 A @ 230.0 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
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	Z
Type	AC
Mech. spec.	39J10
Base	
Status	PRD/A
Elec. spec.	39WGW595
Layout	39LYJ010
Eff. date	09-17-2024
CD Diagram	CD0005
Poles	04
Leads	9#12
Proprietary	False
Created date	05-20-2014

High Voltage Full Load Amps	18.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No 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	3942M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	23.57 IN
Power Factor	84
Product Family	Wash Down
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
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	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

Nameplate

NP1669L									
CAT.NO.	EWDM23933T								
SPEC.	39J010W595G3								
HP	15								
VOLTS	230/460								
AMP	36/18								
RPM	1765								
FRAME	254T		HZ		60		PH		3
SER.F.	1.15	CODE		H	DES	A	CLASS		F
NEMA-NOM-EFF	92.4	PF		84					
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 # 12820

Typical performance - not guaranteed values

Winding: 39WGW595-R001			Type: 3942M		Enclosure: TEFC	
Nameplate Data			460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		15	Full Load Torque		45 LB-FT	
Volts		230/460	Start Configuration		direct on line	
Full Load Amps		36/18	Breakdown Torque		143 LB-FT	
R.P.M.		1765	Pull-up Torque		75 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		88 LB-FT
NEMA Design Code		B	KVA Code		H	
Service Factor (S.F.)		1.15	Starting Current		125 A	
NEMA Nom. Eff.		92.4	Power Factor		84	
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		60°C
S.F. Amps				Temp. Rise @ S.F. Load		72°C
				Locked-rotor Power Factor		33.3
				Rotor inertia		1.84 lb-ft²

Load Characteristics 460 V, 60 Hz, 15 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	49	71	81	86	88	89	87
Efficiency	87.9	92.1	93	92.8	92.3	91.5	92.5
Speed	1792	1784	1776	1766	1759	1750	1762
Line amperes	7.9	10.5	13.7	17.2	21	25	19.5

ABB Motors and Mechanical Inc.

WINDING # 39GW595

Typical performance - not guaranteed values.

15 HP 3 PH 60 HZ 1765 RPM 460 V 3942M

TORQUES (LB-FT): PO=143 PU=75 LR=88 LRA=125





