

ABB BALDOR RELIANCE III

Customer information packet

CEWWDM23994T

15HP, 3520RPM, 3PH, 60HZ, 254TC, 3936M, TEFC, F

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	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 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	16.700 A @ 460.0 V 33.400 A @ 230.0 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	16.7 a

Part Detail

Revision	AA
Type	AC
Mech. spec.	39E490
Base	
Status	PRD/A
Elec. spec.	39WGX288
Layout	39LYE490
Eff. date	02-14-2024
CD Diagram	CD0005
Poles	02
Leads	9#12
Proprietary	False
Created date	12-12-2012

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	3936M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	23.57 IN
Power Factor	90
Product Family	Super White Washdown
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No 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

NP1669L									
CAT.NO.	CEWWDM23994T								
SPEC.	39E490X288G1								
HP	15								
VOLTS	230/460								
AMP	33.4/16.7								
RPM	3520								
FRAME	254TC		HZ	60			PH	3	
SER.F.	1.15	CODE	J	DES	A	CLASS		F	
NEMA-NOM-EFF	91	PF	90						
RATING	40C AMB-CONT								
CC	010A								
DE	6309		ODE	6309					
ENCL	TEFC	SN							
BLANK									

AC Induction Motor Performance Data

Record # 13127

Typical performance - not guaranteed values

Winding: 39WGX288-R001			Type: 3936M		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		33.4/16.7	Breakdown Torque		90.6 LB-FT			
R.P.M.		3520	Pull-up Torque		39.7 LB-FT			
Hz	60	Phase	3	Locked-rotor Torque		47.1 LB-FT		
NEMA Design Code		A	KVA Code	J	Starting Current		135 A	
Service Factor (S.F.)		1.15	No-load Current		5.27 A			
NEMA Nom. Eff.		91	Power Factor		90	Line-line Res. @ 25°C		0.545 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		68°C	
S.F. Amps			Temp. Rise @ S.F. Load		84°C			
			Locked-rotor Power Factor		28.6			
			Rotor inertia		0.92 lb-ft²			

Load Characteristics 460 V, 60 Hz, 15 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	57	80	87	90	92	92	91
Efficiency	85.8	91.1	92	91.7	90.9	89.8	91.2
Speed	3580	3559	3541	3517	3492	3465	3502
Line amperes	6.58	9.53	12.8	16.7	20.9	25.6	19.22

ABB Motors and Mechanical Inc.

WINDING # 39WGX288

Typical performance - not guaranteed values.

15 HP 3 PH 60 HZ 3520 RPM 460 V 3936M

TORQUES (LB-FT): PO=90.6 PU=39.7 LR=47.1 LRA=135





