

ABB BALDOR RELIANCE III

Customer information packet

VESWDM3558T

2HP, 1765RPM, 3PH, 60HZ, 145TC, 3530M, TEFC, N

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	145TC
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	2.000 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	CURUSEEV NEMA PREMIUM
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	5.600 A @ 230.0 V 2.800 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	2.8 a
Insulation Class	F

Part Detail

Revision	A
Type	AC
Mech. spec.	35SS623
Base	
Status	PRD/A
Elec. spec.	35WGZ806
Layout	35LYSS623
Eff. date	10-15-2025
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	11-22-2024

Inverter Code	Inverter Ready
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3530M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	14.17 IN
Power Factor	77
Product Family	Wash Down Paint Free
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.875 IN
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.	VESWDM3558T								
SPEC.	35SS623Z806G1								
HP	2								
VOLTS	230/460								
AMP	5.6/2.8								
RPM	1765								
FRAME	145TC		HZ	60			PH	3	
SER.F.	1.15	CODE	L	DES	B	CLASS	F		
NEMA-NOM-EFF	86.5	PF	77						
RATING	40C AMB-CONT								
CC	010A								
DE	6205		ODE	6203					
ENCL	TEFC	SN							
BLANK									

AC Induction Motor Performance Data

Record # 101604

Typical performance - not guaranteed values

Winding: 35WGZ806-R026			Type: 3530M		Enclosure: TEFC			
Nameplate Data				460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		2		Full Load Torque		5.95 LB-FT		
Volts		230/460		Start Configuration		direct on line		
Full Load Amps		5.6/2.8		Breakdown Torque		24.5 LB-FT		
R.P.M.		1765		Pull-up Torque		14.6 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		17.7 LB-FT		
NEMA Design Code		B	KVA Code	L	Starting Current		25.1 A	
Service Factor (S.F.)		1.15		No-load Current		1.65 A		
NEMA Nom. Eff.		86.5	Power Factor	77	Line-line Res. @ 25°C		9.23 Ω	
Rating - Duty		40C		AMB-CONT		Temp. Rise @ Rated Load		56°C
S.F. Amps						Temp. Rise @ S.F. Load		67°C
						Locked-rotor Power Factor		58.4
						Rotor inertia		0.217 lb-ft²

Load Characteristics 460 V, 60 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	35	56	69	77	81	85	79
Efficiency	77.8	85.2	87	86.8	85.8	84.2	86.2
Speed	1792	1785	1777	1768	1760	1749	1763
Line amperes	1.74	1.99	2.35	2.81	3.37	3.92	3.15

ABB Motors and Mechanical Inc.

WINDING # 35WGZ806

Typical performance - not guaranteed values.

2 HP 3 PH 60 HZ 1765 RPM 460 V 3530M

TORQUES (LB-FT): PO=24.5 PU=14.6 LR=17.7 LRA=25.1





