

ABB BALDOR RELIANCE III

Customer information packet

VEWDM3559T

3HP, 3450RPM, 3PH, 60HZ, 145TC, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	145TC
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	3.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA UR
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	7.900 A @ 208.0 V 7.200 A @ 230.0 V 3.600 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
Heater Indicator	No Heater
High Voltage Full Load Amps	3.6 a
Insulation Class	F

Part Detail

Revision	B
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	35WGQ060
Layout	35LYZ299
Eff. date	02-14-2024
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	11-14-2019

Inverter Code	Inverter Ready
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	5400 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3532M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	14.17 IN
Power Factor	92
Product Family	Wash Down
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	3450 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.	VEWDM3559T								
SPEC.	35-0000-0458								
HP	3								
VOLTS	230/460								
AMP	7.2/3.6								
RPM	3450								
FRAME	145TC		HZ	60			PH	3	
SER.F.	1.15	CODE	L	DES	B	CLASS	F		
NEMA-NOM-EFF	86.5	PF	92						
RATING	40C AMB-CONT								
CC	010A								
DE	6205		ODE	6203					
ENCL	TEFC	SN							
BLANK	20:1CT, 20:1VT, 1.00SF								

AC Induction Motor Performance Data

Record # 78123

Typical performance - not guaranteed values

Winding: 35WGQ060-R042			Type: 3532M		Enclosure: TEFC	
Nameplate Data			460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		3	Full Load Torque		4.5 LB-FT	
Volts		230/460	Start Configuration		direct on line	
Full Load Amps		7.2/3.6	Breakdown Torque		18 LB-FT	
R.P.M.		3450	Pull-up Torque		11 LB-FT	
Hz	60 Phase	3	Locked-rotor Torque		16 LB-FT	
NEMA Design Code		B KVA Code	L	Starting Current		33 A
Service Factor (S.F.)		1.15	No-load Current		1.2 A	
NEMA Nom. Eff.		86.5 Power Factor	92	Line-line Res. @ 25°C		4.7 Ω
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		61°C	
S.F. Amps			Temp. Rise @ S.F. Load		74°C	
			Locked-rotor Power Factor		47.1	
			Rotor inertia		0.0885 LB-FT2	

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	57	77	85	88	89	90	89
Efficiency	84	87.9	88.3	87.2	85.6	83.5	86.2
Speed	3562	3531	3498	3462	3421	3375	3437
Line amperes	1.5	2.1	2.8	3.6	4.5	5.4	4.14

ABB Motors and Mechanical Inc.

WINDING # 35WGQ060

Typical performance - not guaranteed values.

3 HP 3 PH 60 HZ 3450 RPM 460 V 3532M

TORQUES (LB-FT): PO=18 PU=11 LR=16 LRA=33



