



Customer information packet

VEM3159T

1.5HP, 1170RPM, 3PH, 60HZ, 145TC, 3628M, ODP, F

Class - None

Division - Not Applicable

Specifications

Enclosure	ODP
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	1.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA EEV CURUSEEV NEMA PREMIUM NEMA_PREMIUM 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	5.000 A @ 230.0 V 5.100 A @ 208.0 V 2.500 A @ 460.0 V
Design Code	B
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK

Part detail

Revision	H
Type	AC
Mech. spec.	36M655
Base	
Status	PRD/A
Elec. spec.	36WGS949
Layout	36LYM655
Eff. date	05-01-2024
CD Diagram	CD0005
Poles	06
Leads	9#16
Proprietary	False
Created date	04-27-2015

Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	2.5 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3628M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	15.92 IN
Power Factor	64
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1170 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

NP1259LUA									
CAT.NO.	VEM3159T								
SPEC.	36M655S949G1								
HP	1.5								
VOLTS	230/460								
AMPS	5/2.5								
R.P.M.	1170								
FRAME	145TC		HZ	60			PH	3	
SER.F.	1.15	CODE	K	DES	B	CLASS	F		
NEMA NOM. EFF.	86.5		P.F.	64					
RATING	40C AMB-CONT								
CC	010A								
DE	6306		ODE	6205					
ENCL	ODP	SN							
USABLE AT	50HZ 1.5HP 190/380V 5.8/2.9A							SF1.0	

AC Induction Motor Performance Data

Record # 53375

Typical performance - not guaranteed values

Winding: 36WGS949-R004			Type: 3628M		Enclosure: OPSB		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		1.5	Full Load Torque		6.72 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		5/2.5	Breakdown Torque		22 LB-FT		
R.P.M.		1170	Pull-up Torque		13.4 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		15.4 LB-FT	
NEMA Design Code		B	KVA Code	K	Starting Current		15.8 A
Service Factor (S.F.)		1.15	No-load Current		1.65 A		
NEMA Nom. Eff.		86.5	Power Factor	64	Line-line Res. @ 25°C		8.0884 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		24°C	
S.F. Amps				Temp. Rise @ S.F. Load		28°C	

Load Characteristics 460 V, 60 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	27	43	55	64	69	73	67
Efficiency	75.7	84.3	86.6	87	86.5	85.4	86.7
Speed	1192.8	1185.9	1178.5	1170.6	1161.7	1151.4	1165
Line amperes	1.72	1.91	2.18	2.52	2.94	3.39	2.77

ABB Motors and Mechanical Inc.

WINDING # 36WGS949

Typical performance - not guaranteed values.

1.5 HP 3 PH 60 HZ 1170 RPM 460 V 3628M

TORQUES (LB-FT): PO=22 PU=13.4 LR=15.4 LRA=15.8





