



Customer information packet

VZDNM3554T

1.5HP, 1760RPM, 3PH, 60HZ, 145TC, 3538M, TENV

Class - None

Division - Not Applicable

Specifications

Enclosure	TENV
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	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA EEV 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	2.360 A @ 460.0 V 4.720 A @ 230.0 V
Design Code	A
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	2.4 a

Part detail

Revision	-
Type	AC
Mech. spec.	35E6717
Base	
Status	PRD/A
Elec. spec.	35WGK587
Layout	35LYE6717
Eff. date	05-30-2025
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	05-13-2025

Insulation Class	H
Inverter Code	Inverter Duty
KVA Code	S
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3538M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	17.15 IN
Power Factor	69
Product Family	General Purpose
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS NON-COMPLIANT
Service Factor	1.00
Shaft Diameter	0.875 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1760 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP3943L				
CAT.NO.	VZDNM3554T			
SPEC.	35E6717K587Z1			
FRAME	145TC	H.P.	1.5 TE	
VOLTS	230/460 ENCL TENV			
MAG. CUR.	3.4/1.7	F.L. AMPS	4.72/2.36	
R.P.M.	1760	R.P.M. MAX	2700	
HZ.	60	PH.	3	CLASS H
SER.F.	1.00	SL HZ	1.33	
NEMA NOM. EFF.	86.5	WK2	0.274	
RATING	40C AMB-CONT			
DE	6205	ODE	6203	
CC	010A	SN		
	1000:1 CT 1.5:1 CHP			

AC Induction Motor Performance Data

Record # 107876

Typical performance - not guaranteed values

Winding: 35WGK587-R001				Type: 3538M		Enclosure: TENV	
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		1.5		Full Load Torque		4.48 LB-FT	
Volts		230/460		Start Configuration		direct on line	
Full Load Amps		4.72/2.36		Breakdown Torque		32.3 LB-FT	
R.P.M.		1760		Pull-up Torque		19.1 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		24.4 LB-FT	
NEMA Design Code		A	KVA Code	S	Starting Current		32.3 A
Service Factor (S.F.)		1		No-load Current		1.7 A	
NEMA Nom. Eff.		86.5	Power Factor	69	Line-line Res. @ 25°C		7.3 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		98°C	
				Locked-rotor Power Factor		61.5	
				Rotor inertia		0.274 lb-ft²	

Load Characteristics 460 V, 60 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	27	45	59	69	76	81
Efficiency	73.7	83.3	85.9	86.7	86.4	85.5
Speed	1789	1780	1771	1762	1751	1740
Line amperes	1.74	1.88	2.09	2.36	2.69	3.06

ABB Motors and Mechanical Inc.

WINDING # 35WGK587

Typical performance - not guaranteed values.

1.5 HP 3 PH 60 HZ 1760 RPM 460 V 3538M

TORQUES (LB-FT): PO=32.3 PU=19.1 LR=24.4 LRA=32.3





