



Customer information packet

CZDNM3558T

2HP, 1750RPM, 3PH, 60HZ, 145TC, 3546M, TENV, F1

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	2.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	CSA EEV NEMA PREMIUM NEMA_PREMIUM 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	2.800 A @ 460.0 V 5.600 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

Part detail

Revision	A
Type	AC
Mech. spec.	35E6716
Base	
Status	PRD/A
Elec. spec.	35WGK591
Layout	35LYE6716
Eff. date	05-21-2025
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	04-29-2025

High Voltage Full Load Amps	2.8 a
Insulation Class	H
Inverter Code	Inverter Duty
KVA Code	P
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	3546M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	17.15 IN
Power Factor	77
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	1750 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.	CZDNM3558T			
SPEC.	35E6716K591Z2			
FRAME	145TC	H.P.	2 TE	
VOLTS	230/460 ENCL TENV			
MAG. CUR.	3/1.5	F.L. AMPS	5.6/2.8	
R.P.M.	1750	R.P.M. MAX	2700	
HZ.	60	PH.	3	CLASS H
SER.F.	1.00	SL HZ	1.67	
NEMA NOM. EFF.	86.5	WK2	0.332	
RATING	40C AMB-CONT			
DE	6205	ODE	6203	
CC	010A	SN		
	1.15 SF ON SINEWAVE			

AC Induction Motor Performance Data

Record # 108388

Typical performance - not guaranteed values

Winding: 35WGK591-R001			Type: 3546M		Enclosure: TENV			
Nameplate Data			460 V, 60 Hz: High Voltage Connection					
Rated Output (HP)		2	Full Load Torque		5.99 LB-FT			
Volts		230/460	Start Configuration		direct on line			
Full Load Amps		5.6/2.8	Breakdown Torque		32.8 LB-FT			
R.P.M.		1750	Pull-up Torque		22.9 LB-FT			
Hz	60	Phase	3	Locked-rotor Torque		29 LB-FT		
NEMA Design Code		A	KVA Code	P	Starting Current		34.7 A	
Service Factor (S.F.)		1	No-load Current		1.58 A			
NEMA Nom. Eff.		86.5	Power Factor		7	7	Line-line Res. @ 25°C	6.93 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		82°C	
S.F. Amps		6.2/3.1	Temp. Rise @ S.F. Load					
			Locked-rotor Power Factor		60.6			
			Rotor inertia		0.332 lb-ft²			

Load Characteristics 460 V, 60 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	34	55	69	77	82	85
Efficiency	80.4	86.8	87.9	87.6	86.5	84.9
Speed	1785	1774	1762	1749	1735	1720
Line amperes	1.69	1.94	2.31	2.76	3.29	3.86

ABB Motors and Mechanical Inc.

WINDING # 35WGK591

Typical performance - not guaranteed values.

2 HP 3 PH 60 HZ 1750 RPM 460 V 3546M

TORQUES (LB-FT): PO=32.8 PU=22.9 LR=29 LRA=34.7





