



Customer information packet

CBXMN14142T

1//.75HP, 1770//1475RPM, 3PH, 60//50HZ, 143T

Class - CLI GP D; CLII GP F,G

Division - Division I

Specifications

Enclosure	XPNV
Frame	143TC
Frame Material	Steel
Frequency	50.00 Hz 60.00 Hz
Haz Area Class and Group	CLI GP D; CLII GP F,G
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	.750 HP @ 50 HZ 1.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	380.0 V @ 50 HZ 230.0 V @ 60 HZ 190.0 V @ 50 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA EEV UL
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
Constant Torque Speed Range	6
Current @ Voltage	3.340 A @ 230.0 V 3.300 A @ 208.0 V 3.200 A @ 190.0 V 1.670 A @ 460.0 V 1.600 A @ 380.0 V
Design Code	B
Drip Cover	No Drip Cover

Part detail

Revision	B
Type	AC
Mech. spec.	35U456
Base	
Status	PRD/A
Elec. spec.	35WGZ818
Layout	35LYU456
Eff. date	03-08-2024
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	02-23-2023

Duty Rating	CONT
Efficiency @ 100% Load	85.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	1.6 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	M
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	X3522M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	20.37 IN
Power Factor	66
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	1475 rpm 1770 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

NP0887XPSL											
NO.						CC					
S/N						TEMP CODE	T3C				
SPEC.	35U456Z818					INV.TYPE	PWM				
CAT.NO.	CBXMN14142T					C HP FR	60	C HP TO	90		
HP	1//.75					CT HZ FROM	6	CT HZ TO	60		
VOLTS	230/460//190/380					VT HZ FROM	6	VT HZ TO	60		
AMPS	3.34/1.67//3.2/1.6				MAG CUR	-					
RPM	1770//1475				MX RPM	2700					
HZ	60//50	PH	3	CL	F	NOM.EFF.	85.5				
SER.F.	1.00	DES	B	SL HZ	1	WK2	0.159				
FRAME	143TC	RATING	40C AMB-CONT								
	MAG CUR 2.46/1.23//2.4/1.2										
	1.15 SF ON SINE WAVE										

AC Induction Motor Performance Data

Record # 81938

Typical performance - not guaranteed values

Winding: 35WGP529-R059		Type: 3524M	Enclosure: TENV		
Nameplate Data		460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)	1	Full Load Torque	2.99 LB-FT		
Volts	208-230/460//190/380	Start Configuration	direct on line		
Full Load Amps	3.1-3/1.5//3.4/1.7	Breakdown Torque	15.8 LB-FT		
R.P.M.	1765//1460	Pull-up Torque	9.1 LB-FT		
Hz	60//50 Phase	Locked-rotor Torque	11 LB-FT		
NEMA Design Code	B	KVA Code	N	Starting Current	15 A
Service Factor (S.F.)	1	No-load Current	1.02 A		
NEMA Nom. Eff.	87.5	Power Factor	70	Line-line Res. @ 25°C	11.2 Ω
Rating - Duty	40C AMB-30 MIN	Temp. Rise @ Rated Load	26°C		
		Locked-rotor Power Factor	48.9		
		Rotor inertia	0.142 lb-ft²		

Load Characteristics 460 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	28	48	60	70	76	81
Efficiency	74.2	83.5	86.6	87.8	87.3	87
Speed	1793	1785	1778	1770	1761	1753
Line amperes	1.07	1.18	1.33	1.53	1.76	2

ABB Motors and Mechanical Inc.

WINDING # 35WGP529

Typical performance - not guaranteed values.

1 HP 3 PH 60 HZ 1770 RPM 460 V 3524M

TORQUES (LB-FT): PO=15.8 PU=9.1 LR=11 LRA=15





