



Customer information packet

CXM21142T

10//7.5HP, 1770//1475RPM, 3PH, 60//50HZ, 215

Class - CLI GP D; CLII GP F,G

Division - Division I

Specifications

Enclosure	XPFC
Frame	215TC
Frame Material	Steel
Frequency	50.00 Hz 60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	10.000 HP @ 60 HZ 7.500 HP @ 50 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
XP Class and Group	CLI GP D; CLII GP F,G
XP Division	Division I
Agency Approvals	CSA UR CSA EEV
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Constant Torque Speed Range	15
Current @ Voltage	24.000 A @ 230.0 V 22.000 A @ 190.0 V 12.000 A @ 460.0 V 11.000 A @ 380.0 V
Design Code	A
Drip Cover	No Drip Cover

Part detail

Revision	B
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	37WGS518
Layout	37LYL772
Eff. date	09-07-2022
CD Diagram	CD0005
Poles	04
Leads	9#14
Proprietary	False
Created date	04-29-2021

Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	11.0 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	NONE
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3752M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	21.56 IN
Power Factor	85
Product Family	General Purpose
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	1.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	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
XP Temp Code	T3C

Nameplate

NP0887XPSLEV											
NO.						CC	010A				
S/N						TEMP CODE		T3C			
SPEC.	37-0000-0383					INV.TYPE		PWM			
CAT.NO.	CXM21142T					C HP FR		60	C HP TO		90
HP	10//7.5					CT HZ FROM		15	CT HZ TO		60
VOLTS	230/460//190/380					VT HZ FROM		6	VT HZ TO		60
AMPS	24/12//22/11				MAG CUR	7.4/3.7					
RPM	1770//1475				MX RPM	2700					
HZ	60//50	PH	3	CL	F	NOM.EFF.	91.7				
SER.F.	1.00	DES	A	SL HZ	1	WK2	1.28				
FRAME	215TC	RATING		40C AMB-CONT							
	NEMA MG-1 PART 5, IP54										
	1.15 SF ON SINEWAVE										

AC Induction Motor Performance Data

Record # 75269

Typical performance - not guaranteed values

Winding: 37WGS518-R018		Type: 3752M	Enclosure: XPFC		
Nameplate Data			460 V, 60 Hz: High Voltage Connection		
Rated Output (HP)	10	Full Load Torque	29.45 LB-FT		
Volts	230/460//190/380	Start Configuration	direct on line		
Full Load Amps	24/12//22/11	Breakdown Torque	134 LB-FT		
R.P.M.	1770//1475	Pull-up Torque	49.2 LB-FT		
Hz	60//50	Phase	3	Locked-rotor Torque	68.7 LB-FT
NEMA Design Code	A	KVA Code	K	Starting Current	103 A
Service Factor (S.F.)	1	No-load Current	5.49 A		
NEMA Nom. Eff.	91.7	Power Factor	85	Line-line Res. @ 25°C	0.937 Ω
Rating - Duty	40C	AMB-CONT	Temp. Rise @ Rated Load		63°C
S.F. Amps		Temp. Rise @ S.F. Load		77°C	
		Locked-rotor Power Factor		35.5	
		Rotor inertia		1.28 LB-FT2	

Load Characteristics 460 V, 60 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	42	64	76	82	86	88
Efficiency	88.5	92.3	92.7	91.8	90.7	88.9
Speed	1794	1787	1780	1772	1763	1753
Line amperes	6.14	7.8	9.9	12.3	15	17.9

ABB Motors and Mechanical Inc.

WINDING # 37WGS518

Typical performance - not guaranteed values.

10 HP 3 PH 60 HZ 1772 RPM 460 V 3752M

TORQUES (LB-FT): PO=134 PU=49.2 LR=68.7 LRA=103





