

ABB BALDOR RELIANCE III

Customer information packet

VXM21142T

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
Haz Area Class and Group	CLI GP D; CLII GP F,G
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	7.500 HP @ 50 HZ 10.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 190.0 V @ 50 HZ 230.0 V @ 60 HZ 380.0 V @ 50 HZ
Agency Approvals	UL CSA EEV
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
Constant Torque Speed Range	15
Current @ Voltage	11.000 A @ 380.0 V 12.000 A @ 460.0 V 22.000 A @ 190.0 V 24.000 A @ 230.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT

Part Detail

Revision	B
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	37WGS518
Layout	37LY-000-164
Eff. date	02-13-2023
CD Diagram	CD0005
Poles	04
Leads	9#14
Proprietary	False
Created date	04-27-2021

Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
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	21.82 IN
Power Factor	85
Product Family	General Purpose
Pulley End Bearing Type	Ball
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

Nameplate

NP0887XPSLEV															
NO.								CC	010A						
S/N								TEMP CODE		T3C					
SPEC.	37-0000-0379							INV.TYPE		PWM					
CAT.NO.	VXM21142T							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 SINE WAVE														

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	Locked-rotor Torque		68.7 LB-FT	
NEMA Design Code		A	KVA Code		K	
Starting Current		103 A	No-load Current		5.49 A	
Service Factor (S.F.)		1	Line-line Res. @ 25°C		0.937 Ω	
NEMA Nom. Eff.		91.7	Power Factor		85	
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





