

ABB BALDOR RELIANCE III

Customer information packet

XM14222T

26M 2P XPFC HOR 145T T'STATS INVERTER

Class - CLI GP D; CLII GP F,G

Division - Division I

Specifications

Enclosure	XPFC
Frame	145T
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	1.500 HP @ 50 HZ 2.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 380.0 V @ 50 HZ 230.0 V @ 60 HZ 190.0 V @ 50 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	1.8
Current @ Voltage	5.000 A @ 230.0 V 4.600 A @ 190.0 V 2.500 A @ 460.0 V 2.300 A @ 380.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT

Part Detail

Revision	D
Type	AC
Mech. spec.	35Q558
Base	
Status	PRD/A
Elec. spec.	35WGL739
Layout	35LYQ558
Eff. date	04-29-2021
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	12-13-2018

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	2.3 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	NONE
KVA Code	M
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Max Speed	5400 rpm
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	X3526M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	15.21 IN
Power Factor	88
Product Family	Hazardous Location Motor
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS NON-COMPLIANT
Service Factor	1.00
Shaft Diameter	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	2890 rpm

	3490 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.	35Q558L739G1						INV.TYPE	PWM					
CAT.NO.	XM14222T						C HP FR	60		C HP TO	90		
HP	2//1.5						CT HZ FROM	1.8		CT HZ TO	60		
VOLTS	230/460//190/380						VT HZ FROM	1.8		VT HZ TO	60		
AMPS	5/2.5//4.6/2.3						MAG CUR	1.8/.9					
RPM	3490//2890						MX RPM	5400					
HZ	60//50		PH	3	CL	F	NOM.EFF.	85.5					
SER.F.	1.00		DES	B	SL HZ	1.8	WK2	0.07					
FRAME	145T		RATING		40C AMB-CONT								
	55C AMB AT 1.00 SF SINEWAVE												
	NEMA MG-1 PART 5, IP54						1.15 SF SINEWAVE						

AC Induction Motor Performance Data

Record # 73835

Typical performance - not guaranteed values

Winding: 35WGL739-R028			Type: 3526M		Enclosure: XPFC			
Nameplate Data				460 V, 60 Hz: High Voltage, High Speed Connection				
Rated Output (HP)		2//1.5		Full Load Torque		2.98 LB-FT		
Volts		230/460//190/380		Start Configuration		direct on line		
Full Load Amps		5/2.5//4.6/2.3		Breakdown Torque		14.2 LB-FT		
R.P.M.		3490//2890		Pull-up Torque		6.33 LB-FT		
Hz		60//50	Phase	3	Locked-rotor Torque		11.2 LB-FT	
NEMA Design Code		B		KVA Code	M	Starting Current		25.9 A
Service Factor (S.F.)		1		No-load Current		0.912 A		
NEMA Nom. Eff.		85.5	Power Factor		88	Line-line Res. @ 25°C		6.88 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		44°C		
				Locked-rotor Power Factor		49.9		
				Rotor inertia		0.0719 LB-FT2		

Load Characteristics 460 V, 60 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	55	75	84	88	90	91
Efficiency	73.4	83.6	85.7	86.3	85.7	84.6
Speed	3572	3547	3520	3492	3461	3426
Line amperes	1.1	1.47	1.93	2.44	3	3.61

ABB Motors and Mechanical Inc.

WINDING # 35WGL739

Typical performance - not guaranteed values.

2 HP 3 PH 60 HZ 3492 RPM 460 V 3526M

TORQUES (LB-FT): PO=14.2 PU=6.33 LR=11.2 LRA=25.9





