

ABB BALDOR RELIANCE III

Customer information packet

XM14162T

1//.75HP, 1155//970RPM, 3PH, 60//50HZ, 145T

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	1.000 HP @ 60 HZ .750 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	190.0 V @ 50 HZ 230.0 V @ 60 HZ 380.0 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	2.2
Current @ Voltage	3.500 A @ 208.0 V 3.200 A @ 190.0 V 3.000 A @ 230.0 V 1.600 A @ 380.0 V 1.500 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover

Part Detail

Revision	-
Type	AC
Mech. spec.	35Q558
Base	
Status	PRD/A
Elec. spec.	35WGG019
Layout	35LYQ558
Eff. date	06-22-2023
CD Diagram	CD0005
Poles	06
Leads	9#18
Proprietary	False
Created date	02-23-2023

Duty Rating	CONT
Efficiency @ 100% Load	82.5 %
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	1.5 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	J
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Max Speed	1800 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	6
Overall Length	15.21 IN
Power Factor	67
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	1155 rpm

	970 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.	35Q558G019G2						INV.TYPE	PWM				
CAT.NO.	XM14162T						C HP FR	60	C HP TO	90		
HP	1//.75						CT HZ FROM	2.2		CT HZ TO	60	
VOLTS	230/460//190/380						VT HZ FROM	2.2		VT HZ TO	60	
AMPS	3/1.5//3.2/1.6						MAG CUR	2/1				
RPM	1155//970						MX RPM	1800				
HZ	60//50	PH	3	CL	F	NOM.EFF.	82.5					
SER.F.	1.00	DES	B	SL HZ	1.57	WK2	0.189					
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 # 87727

Typical performance - not guaranteed values

Winding: 35WGG019-R008			Type: 3526M		Enclosure: XPFC		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		1//.75	Full Load Torque		4.48 LB-FT		
Volts		230/460//190/380	Start Configuration		direct on line		
Full Load Amps		3/1.5//3.2/1.6	Breakdown Torque		11.9 LB-FT		
R.P.M.		1155//970	Pull-up Torque		7.1 LB-FT		
Hz	60//50	Phase	3	Locked-rotor Torque		8.6 LB-FT	
NEMA Design Code		B	KVA Code	J	Starting Current		9.1 A
Service Factor (S.F.)		1	No-load Current		1.02 A		
NEMA Nom. Eff.		82.5	Power Factor	67	Line-line Res. @ 25°C		21.1 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		46°C	
S.F. Amps				Temp. Rise @ S.F. Load		56°C	
				Locked-rotor Power Factor		48.3	
				Rotor inertia		0.189 lb-ft²	

Load Characteristics 460 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	29	47	59	67	72	75
Efficiency	73.5	81.9	83.5	83.1	81.6	79.1
Speed	1193	1185	1178	1169	1159	1147
Line amperes	1.07	1.21	1.41	1.67	1.98	2.35

ABB Motors and Mechanical Inc.

WINDING # 35WGG019

Typical performance - not guaranteed values.

1 HP 3 PH 60 HZ 1169 RPM 460 V 3526M

TORQUES (LB-FT): PO=11.9 PU=7.1 LR=8.6 LRA=9.1





