

ABB BALDOR RELIANCE III

Customer information packet

SUL50306SM

3HP, 1165RPM, 1PH, 60HZ, 210TY, XPNV, V1

Class - CLI GP C,D

Division - Not Applicable

Specifications

Enclosure	XPNV
Frame	210TY
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP C,D
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Phase	1
Agency Approvals	CCSA US
	CSA
	UL
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Cable Length	25 FOOT
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Haz Area Temp Code	T3C
Heater Indicator	No Heater
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Motor Standards	NEMA
Motor Type	M
Mounting Arrangement	V1
Number of Poles	6
Product Family	Pump - Centrifugal
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.15
Shaft Diameter	1.250 IN

Part Detail

Revision	B
Type	AC
Mech. spec.	
Base	
Status	INA/A
Elec. spec.	A00097A A 001
Layout	066930-703
Eff. date	12-17-2021
CD Diagram	
Poles	06
Leads	
Proprietary	False
Created date	11-16-2018

Shaft Rotation	Fixed Opposite Standard
Shaft Slinger Indicator	No Slinger
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Winding	Normally Closed Thermostat

Nameplate

000613007MN										
CAT NO	SUL50306SM	SPEC NO.	S21-A000-0305							
HP	3	AMPS	21.0	VOLTS	230	DESIGN	L			
FRAME SIZE	210TY	RPM	1165	HZ	60	AMB	40	SF	1.15	
D.E. BRG.	60BC02JPP30A	PH	1	DUTY	15MIN	INSUL	F			
O.D.E. BRG.	30BC02JPG30A	TYPE	CS	ENCL	TENV	CODE	H			
		POWER FACTOR		NEMA-NOM-EFF						
		MAX CORR KVAR		GUARANTEED EFFICIENCY						
		NEMA NOM/CSA QUOTED EFF @		100% LOAD						
SER.NO.		MOTOR WEIGHT	315	LBS.						
	*15 MIN IN AIR ;SUB. IN									
	SEWAGE / WATER ONLY MAXDEPTH									
	IN MANUAL									

000692000MB		
CONTROL BOX 701455-23E		
MODEL #S21-A000-0305		
3 HP ; 1165 RPM ; 230 VOLTS;		
21.0 AMPS ; 60 HZ ; 1 PHASE;		
W/D 414711-1B		
FINAL CONNECT AT 230V		
DO NOT MOUNT IN HAZARDOUS LOCATION		

000613007RC			
CLASS I GROUP	C D X	NO.	
CLASS II GROUP	X X X		
OPERATING TEMP CODE	T3C		

000613007MR

CAT NO	SUL50306SM	SPEC NO.	S21-A000-0305						
HP	3	AMPS	21.0	VOLTS	230	DESIGN	L		
FRAME SIZE	210TY	RPM	1165	HZ	60	AMB	40	SF	1.15
D.E. BRG.	60BC02JPP30A		PH	1	DUTY	15MIN		INSUL	F
O.D.E. BRG.	30BC02JPG30A		TYPE	CS	ENCL	TENV		CODE	H
	POWER FACTOR				NEMA-NOM-EFF				
	MAX CORR KVAR				GUARANTEED EFFICIENCY				
	NEMA NOM/CSA QUOTED EFF @				100% LOAD				
SER.NO.	MOTOR WEIGHT			315	LBS.				
	*15 MIN IN AIR ;SUB. IN								
	SEWAGE / WATER ONLY MAXDEPTH								
	IN MANUAL								

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS			
0	X215TY	3.0	CS	1/60	1165	230			
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.			
21.0	*	40/F	1.15	-	H	SUB			
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)					
784056	418425-61BE	-	-	.5303/3.23460					
PERFORMANCE									
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY				
NO LOAD	0	12.5	1200	24.8	0				
1/4	.66	13.2	1189	39.7	41.0				
2/4	1.42	15.0	1181	54.1	56.7				
3/4	2.18	17.6	1172	63.7	62.9				
4/4	3.00	21.0	1165	69.1	65.6				
5/4	3.64	25.0	1149	72.7	65.0				
SPEED TORQUE									
	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES					
LOCKED ROTOR	0	166	22.5	86.0					
PULL UP	925	170	23.0	79.0					
BREAKDOWN	1050	218	29.5	48.0					
FULL LOAD	1165	100	13.5	21.0					
AMPERES SHOWN FOR 230. VOLT CONNECTION. IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE REMARKS:									
		DR. BY _____		A-C MOTOR PERFORMANCE DATA A00097-A-A001 ISSUE DATE 07/23/19 Page 8 of 9					
		CK. BY _____							
		APP. BY _____							
		DATE _____							

